

BCLP02662

APPENDIX C

CHEMICAL DATA

APPENDIX C - ANALYTICAL DATA

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TABLE C-1
ABBREVIATIONS AND QUALIFIERS UTILIZED IN RESULT TABLES

Abbreviation	Definition
AQ	Aqueous Sample.
FB	Field Blank.
LP	Leach Pit Location.
mg/kg	milligrams per kilogram.
mg/L	milligrams per liter.
MW	Monitoring Well Location.
ppb	parts per billion (ug/kg or ug/L).
ppm	parts per million (mg/kg or mg/L).
SB	Soil Boring Location.
SD	Sediment Location.
SL	Sludge Sample.
SP	Septic Tank Location.
SS	Surface Soil Location.
SW	Surface Water Location.
TAL	Target Analyte List.
TB	Trip Blank.
TCL	Target Compound List.
TICs	Tentatively Identified Compounds.
TOC	Total Organic Carbon.
ug/kg	micrograms per kilogram.
ug/L	micrograms per liter.
Compound concentration is above the criteria and/or guidance value provided on the table (see Section 4.0 for selection rationale). To be used for comparison and reference purposes only.	
Qualifier	Definition
U	Compound not detected at given detection limits.
--	No Tentatively Identified Compounds (TICs) identified in sample.
J	Compound value is estimated.
R	Compound value is rejected and deemed unusable.
B (organics)	Compound was also present in an associated blank sample.
B (inorganics)	Analyte value is less than the required method detection limit but greater than the instrument detection limit.
E	Compound concentration exceeds the calibration range.
D	Compound value reported is from a dilution analysis.
P	Compound had a greater than 25 percent difference for the detected concentration values between two gas chromatograph columns.
N	Presumptive evidence exists for the presence of compound.
NC	No criteria available.
ND (criteria)	Not to be detected above the detection limit for the analytical method.
NA	Not analyzed/not available.

TABLE C-2
TCL Volatile Organic Compounds - Septic Tank/Leach Pit Sludge and Water
Magna Metals Site
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Sample ID Laboratory ID Date Sampled	SP-SL Septic Tank A Sludge 72085002 05/14/97	SP-AQ Septic Tank A Water 72184003 05/14/97	LP-AQ Leach Pit G Water 72184004 05/14/97
Chloromethane	40 UJ	1 U	1 U
Bromomethane	40 UJ	1 U	1 U
Vinyl Chloride	40 UJ	1 U	2.2
Chloroethane	40 UJ	1 U	1 U
Methylene Chloride	40 UJ	2 U	2 U
Acetone	110 UJ	R	R
Carbon Disulfide	40 UJ	1 U	1 U
1,1-Dichloroethene	40 UJ	1 U	1 U
1,1-Dichloroethane	40 UJ	1 U	1 U
cis-1,2-Dichloroethene	NA	1 U	4.8
trans-1,2-Dichloroethene	NA	1 U	1 U
1,2-Dichloroethene (total)	40 UJ	NA	NA
Chloroform	40 UJ	1 U	1 U
1,2-Dichloroethane	40 UJ	1 U	1 U
2-Butanone	37 J	R	R
Bromo-chloromethane	NA	1 U	1 U
1,1,1-Trichloroethane	40 UJ	1 U	1 U
Carbon Tetrachloride	40 UJ	1 U	1 U
Bromodichloromethane	40 UJ	1 U	1 U
1,2-Dichloropropane	40 UJ	1 U	1 U
cis-1,3-Dichloropropene	40 UJ	1 U	1 U
Trichloroethene	40 UJ	1 U	0.92 J
Dibromo-chloromethane	40 UJ	1 U	1 U
1,1,2-Trichloroethane	40 UJ	1 U	1 U
Benzene	40 UJ	1 U	1 U
trans-1,3-Dichloropropene	40 UJ	1 U	1 U

See appendix introduction for abbreviations and data qualifiers.
 Sludge results are presented in ug/kg (ppb); water results are presented in ug/L (ppb).

TABLE C-2
TCL Volatile Organic Compounds - Septic Tank/Leach Pit Sludge and Water
Magna Metals Site
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Sample ID Laboratory ID Date Sampled	SP-SL Septic Tank A Sludge	SP-AQ Septic Tank A Water	SP-AQ Leach Pit G Water	LP-AQ Leach Pit G Water
Bromoform	40 UJ	1 U	1 U	1 U
4-Methyl-2-Pentanone	40 UJ	5 U	5 U	5 U
2-Hexanone	40 UJ	R	R	R
Tetrachloroethene	40 UJ	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	40 UJ	1 U	1 U	1 U
Toluene	14 J	1 U	1 U	1 U
Chlorobenzene	40 UJ	1 U	1 U	1 U
Ethylbenzene	40 UJ	1 U	1 U	1 U
Styrene	40 UJ	1 U	1 U	1 U
Xylene (total)	30 J	1 U	1 U	1 U
1,3-Dichlorobenzene	NA	1 U	1 U	1 U
1,4-Dichlorobenzene	NA	0.76 J	1 U	1 U
1,2-Dichlorobenzene	NA	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	NA	1 U	1 U	1 U

See appendix introduction for abbreviations and data qualifiers.

Sludge results are presented in ug/kg (ppb); water results are presented in ug/L (ppb).

TABLE C-3
TCL Semi-Volatile Organic Compounds - Septic Tank/Leach Pit Sludge and Water
Magna Metals Site
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Sample ID	SP-SL Septic Tank A Sludge	SP-AQ Septic Tank A Water	LP-AQ Leach Pit G Water
Laboratory ID	971144A-14	971144A-13	971144A-15
Date Sampled	05/14/97	05/14/97	05/14/97
Phenol	1300 UJ	5 U	5 U
bis(2-Chloroethyl) ether	1300 UJ	5 U	5 U
2-Chlorophenol	1300 UJ	5 U	5 U
1,3-Dichlorobenzene	1300 UJ	5 U	5 U
1,4-Dichlorobenzene	4200 J	5 U	5 U
1,2-Dichlorobenzene	1300 UJ	5 U	5 U
2-Methylphenol	1300 UJ	5 U	5 U
2,2'-Oxybis(1-Chloropropane)	1300 UJ	5 U	5 U
4-Methylphenol	1300 UJ	5 U	5 U
N-Nitroso-di-n-propylamine	1300 UJ	5 U	5 U
Hexachloroethane	1300 UJ	5 U	5 U
Nitrobenzene	1300 UJ	5 U	5 U
Isophorone	1300 UJ	5 U	5 U
2-Nitrophenol	1300 UJ	5 U	5 U
bis (2-Chloroethoxy) methane	1300 UJ	5 U	5 U
2,4-Dimethylphenol	1300 UJ	5 U	5 U
1,2,4-Trichlorobenzene	1300 UJ	5 U	5 U
Naphthalene	1300 UJ	5 U	5 U
4-Chloroaniline	1300 UJ	5 U	5 U
Hexachlorobutadiene	1300 UJ	5 U	5 U
4-Chloro-3-methylphenol	1300 UJ	5 U	5 U
2-Methylnaphthalene	1500 J	5 U	5 U
Hexachlorocyclopentadiene	1300 UJ	5 U	5 U
2,4,6-Trichlorophenol	1300 UJ	5 U	5 U
2,4,5-Trichlorophenol	3200 UJ	20 U	21 U

See appendix introduction for abbreviations and data qualifiers.

Sludge results are presented in ug/kg (ppb); water results are presented in ug/L (ppb).

TABLE C-3
TCL Semi-Volatile Organic Compounds - Septic Tank/Leach Pit Sludge and Water
Magna Metals Site
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	Sample ID	SP-SL Septic Tank A Sludge	SP-AQ Septic Tank A Water	LP-AQ Leach Pit G Water
Laboratory ID	971144A-14	971144A-13	971144A-15	
Date Sampled	05/14/97	05/14/97	05/14/97	05/14/97
Pyrene		300 J	5 U	5 U
Butylbenzylphthalate		1300 UJ	5 UJ	5 UJ
3,3'-Dichlorobenzidine		1300 UJ	5 U	5 U
Benzo(a)anthracene		230 J	5 U	5 U
Chrysene		280 J	5 U	5 U
bis(2-Ethylhexyl)phthalate		12000 JD	2 J	2 J
Di-n-octylphthalate		330 J	5 UJ	5 UJ
Benzo(b)fluoranthene		330 J	5 U	5 U
Benzo(k)fluoranthene		240 J	5 U	5 U
Benzo(a)pyrene		200 J	5 U	5 U
Indeno(1,2,3-cd)pyrene		1300 UJ	5 U	5 U
Dibenz(a,h)anthracene		1300 UJ	5 U	5 U
Benzo(g,h,i)perylene		1300 UJ	5 U	5 U

See appendix introduction for abbreviations and data qualifiers.
 Sludge results are presented in ug/kg (ppb); water results are presented in ug/L (ppb).

TABLE C-4
TCL Pesticide/PCB Compounds - Septic Tank/Leach Pit Sludge and Water
Magna Metals Site
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Sample ID	SP-SL Septic Tank A Sludge 72085002 05/14/97	SP-AQ Septic Tank A Water 72085001 05/14/97	LP-AQ Leach Pit G Water 72085003 05/14/97
alpha-BHC	6.8 UJ	0.01 U	0.01 U
beta-BHC	6.8 UJ	0.01 U	0.01 U
delta-BHC	6.8 UJ	0.01 U	0.01 U
gamma-BHC (Lindane)	6.8 UJ	0.01 U	0.01 U
Heptachlor	6.8 UJ	0.01 U	0.01 U
Aldrin	6.8 UJ	0.01 U	0.01 U
Heptachlor epoxide	6.8 UJ	0.01 U	0.01 U
Endosulfan I	6.8 UJ	0.01 U	0.01 U
Dieldrin	13 UJ	0.02 U	0.02 U
4,4'-DDE	11 JP	0.02 U	0.02 U
Endrin	13 UJ	0.02 U	0.02 U
Endosulfan II	13 UJ	0.02 U	0.02 U
4,4'-DDD	13 UJ	0.02 U	0.02 U
Endosulfan sulfate	13 UJ	0.02 U	0.02 U
4,4'-DDT	13 UJ	0.02 U	0.02 U
Methoxychlor	68 UJ	0.11 U	0.11 U
Endrin ketone	13 UJ	0.02 U	0.02 U
Endrin aldehyde	13 UJ	0.02 U	0.02 U
alpha-Chlordane	6.8 UJ	0.01 U	0.01 U
gamma-Chlordane	6.8 UJ	0.01 U	0.01 U
Toxaphene	680 UJ	1.1 U	1.1 U
Aroclor-1016	130 UJ	0.22 U	0.23 U
Aroclor-1221	270 UJ	0.44 U	0.45 U
Aroclor-1232	130 UJ	0.22 U	0.23 U
Aroclor-1242	130 UJ	0.22 U	0.23 U
Aroclor-1248	150 JP	0.22 U	0.23 U
Aroclor-1254	130 UJ	0.22 U	0.23 U
Aroclor-1260	72 JP	0.22 U	0.23 U

See appendix introduction for abbreviations and data qualifiers.
 Sludge results are presented in ug/kg (ppb); water results are presented in ug/L (ppb).

TABLE C-5
TAL Metals and Cyanide - Septic Tank/Leach Pit Sludge and Water
Magna Metals Site
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Sample ID	SP-SI Septic Tank A Sludge	SP-AQ Septic Tank A Water	LP-AQ Leach Pit G Water
Laboratory ID	971144A-14	971144A-13	971144A-15
Date Sampled	05/14/97	05/14/97	05/14/97
Aluminum	16100 J	80.8 B	162 B
Antimony	5.9 JB	3.1 B	3 U
Arsenic	402 J	3.4 B	88.8
Barium	174 J	20.4 B	23.8 B
Beryllium	0.7 UJ	1 U	1 U
Cadmium	6.4 J	1 U	1 U
Calcium	9760 J	22000	9500
Chromium	R	2 B	1 U
Cobalt	34 JB	1.8 B	1 U
Copper	1160 J	167	154
Iron	30400 J	582 J	256 J
Lead	228 J	R	R
Magnesium	5940 J	2560 B	536 B
Manganese	815 J	72.5	28.2
Mercury	0.49 J	0.2 U	0.2 U
Nickel	10400 J	788	45.9
Potassium	1120 JB	2900 JB	704 JB
Selenium	200 J	14.3	3.2 B
Silver	0.97 JB	1 UJ	1 UJ
Sodium	717 JB	4500 B	5750
Thallium	2.1 UJ	3 UJ	3 UJ
Vanadium	32.9 JB	1.1 B	1.4 B
Zinc	9660 J	230 J	286 J
Cyanide	2420 J	39.3	12.7

See appendix introduction for abbreviations and data qualifiers.

Sludge results are presented in mg/kg (ppm); water results are presented in ug/L (ppb).

TABLE C-6
Total Organic Carbon - Septic Tank/Leach Pit Sludge and Water
Magna Metals Site
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Sample ID	SP-SL
Laboratory ID	Septic Tank A
Date Sampled	Sludge 1144014 05/14/97
Total Organic Carbon	52000 J

See appendix introduction for abbreviations and data qualifiers.
Sludge results are presented in mg/kg (ppm); water results are presented in ug/L (ppb).

TABLE C-7
TCL Volatile Organic Compounds - Surface Water
Magna Metals Site
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Sample ID	NYSDEC Water Quality Standards/Guidance Values (Class D)	SW-1 72184005	SW-1 DUP 72184009	SW-2 72184006	SW-3 72184007	SW-4 72184008	SW-5 721840010	SW-6 721840011
Laboratory ID	Date Sampled	05/22/97	05/22/97	05/22/97	05/22/97	05/22/97	05/22/97	05/22/97
Chloromethane	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	NC	1 U	1 U	1 U	1 U	0.7 J	1 U	1 U
Chloroethane	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Acetone	NC	R	R	R	R	R	R	R
Carbon Disulfide	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	NC	3.5	4.2	3.2	3.3	4.5	2.1	5.1
trans1,2-Dichloroethene	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	NC	1 U	1 U	1 U	1 U	1 U	1 U	0.79 J
2-Butanone	NC	R	R	R	R	R	R	R
Bromo-chloromethane	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	11	5.5	2.7	2.4	2.3	2.6	2.2	0.97 J
Dibromo-chloromethane	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	6	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	NC	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	NC							

See appendix introduction for abbreviations and data qualifiers.
 Surface water results are presented in ug/L (ppb).

TABLE C-7
TCL Volatile Organic Compounds - Surface Water
Magna Metals Site
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Sample ID	NYSDEC Water Quality Standards/Guidance Values (Class D)	SW-1 72184005	SW-1 DUP 72184009	SW-2 72184006	SW-3 72184007	SW-4 72184008	SW-5 721840010	SW-6 721840011
Laboratory ID	Date Sampled	05/22/97	05/22/97	05/22/97	05/22/97	05/22/97	05/22/97	05/22/97
2-Hexanone	NC	R	R	R	R	R	R	R
Tetrachloroethene	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylene (total)	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U

See appendix introduction for abbreviations and data qualifiers.
 Surface water results are presented in ug/L (ppb).

TABLE C-7
TCL Volatile Organic Compounds - Surface Water
Magna Metals Site
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Sample ID	NYSDEC Water Quality Standards/ Guidance Values (Class D)	SW-7 72184012 05/22/97	SW-8 72184013 05/22/97	SW-9 72184014 05/22/97	SW-10 72184015 05/22/97	SW-11 72184018 05/22/97	SW-12 72184019 05/22/97
Chloromethane	NC	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	NC	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	NC	1 U	1 U	2.5	0.91 J	1 U	1 U
Chloroethane	NC	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	NC	2.3	2 U	2 U	2 U	2 U	2 U
Acetone	NC	R	R	R	R	R	R
Carbon Disulfide	NC	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	NC	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	NC	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	NC	1 U	7.4	18	9	1 U	1 U
trans-1,2-Dichloroethene	NC	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	NC	0.77 J	1 U	0.89 J	1.6	1 U	1 U
1,2-Dichloroethane	NC	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	NC	R	R	R	R	R	R
Bromo-chloromethane	NC	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	NC	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	NC	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	NC	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	NC	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NC	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	11	1 U	1.4	0.73 J	1	1 U	1 U
Dibromo-chloromethane	NC	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	NC	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	6	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	NC	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	NC	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	NC						

See appendix introduction for abbreviations and data qualifiers.
 Surface water results are presented in ug/L (ppb).

TABLE C-7
TCL Volatile Organic Compounds - Surface Water
Magna Metals Site
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Sample ID	NYSDEC Water Laboratory ID Quality Standards/ Guidance Values (Class D)	SW-7 72184012	SW-8 72184013	SW-9 72184014	SW-10 72184015	SW-11 72184018	SW-12 72184019
Date Sampled		05/22/97	05/22/97	05/22/97	05/22/97	05/22/97	05/22/97
2-Hexanone	NC	R	R	R	R	R	R
Tetrachloroethene	1	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	NC	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	NC	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	NC	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	50	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	NC	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	NC	1 U	1 U	1 U	1 U	1 U	1 U
Xylene (total)	NC	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	50	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	50	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	50	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	NC	1 U	1 U	1 U	1 U	1 U	1 U

See appendix introduction for abbreviations and data qualifiers.
 Surface water results are presented in ug/L (ppb).

TABLE C-8
TCL Semi-Volatile Organic Compounds - Surface Water
Magna Metals Site
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Sample ID Laboratory ID Date Sampled	NYSDEC Water Quality Standards/ Guidance Values (Class D)	SW-1 971121A-07 05/12/97	SW-1 DUP 971144A-11 05/12/97	SW-2 971121A-05 05/12/97	SW-3 971121A-08 05/12/97	SW-4 971144A-01 05/14/97	SW-5 971144A-03 05/14/97	SW-6 971144A-05 05/14/97
Phenol bis(2-Chloroethyl) ether	5 NC	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
2-Chlorophenol	1	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
2-Methylphenol	5	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
2,2'-oxybis(1-Chloropropane)	NC	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
4-Methylphenol	5	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
N-Nitroso-di-n-propylamine	NC	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
Hexachloroethane	NC	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
Nitrobenzene	NC	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
Isophorone	NC	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
2-Nitrophenol	5	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
2,4-Dimethylphenol	5	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
bis(2-Chloroethoxy)methane	NC	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
2,4-Dichlorophenol	1	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
1,2,4-Trichlorobenzene	50	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
Naphthalene	NC	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
4-Chloroaniline	NC	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
Hexachlorobutadiene	10	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
4-Chloro-3-methylphenol	1	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
2-Methylnaphthalene	NC	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
Hexachlorocyclopentadiene	4.5	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
2,4,6-Trichlorophenol	1	6 U 25 U	20 U 20 U	25 U 25 U	22 U 22 U	21 U 21 U	21 U 21 U	21 U 21 U
2,4,5-Trichlorophenol	1	6 U 25 U	5 U 20 U	6 U 25 U	6 U 22 U	5 U 21 U	5 U 21 U	5 U 21 U
2-Chloronaphthalene	NC	6 U 25 U	5 U 20 U	6 U 25 U	6 U 22 U	5 U 21 U	5 U 21 U	5 U 21 U
2-Nitroaniline	NC	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
Dimethylphthalate	NC	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
Acenaphthylene	NC	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U

See appendix introduction for abbreviations and data qualifiers.
 Surface water results are presented in ug/L (ppb).

TABLE C-8
TCL Semi-Volatile Organic Compounds - Surface Water
Magna Metals Site
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Sample ID Laboratory ID Date Sampled	NYSDEC Water Quality Standards/ Guidance Values (Class D)	SW-1 971121A-07 05/12/97	SW-1 DUP 971144A-11 05/12/97	SW-2 971121A-05 05/12/97	SW-3 971121A-08 05/12/97	SW-4 971144A-01 05/14/97	SW-5 971144A-03 05/14/97	SW-6 971144A-05 05/14/97
2,6-Dinitrotoluene	NC	6 U 25 U	5 U 20 U	6 U 25 U	6 U 22 U	5 U 21 U	5 U 21 U	5 U 21 U
3-Nitroaniline	NC	6 U 25 U	5 U 20 U	6 U 25 U	6 U 22 U	5 U 21 U	5 U 21 U	5 U 21 U
Acenaphthene	NC	6 U 25 U	5 U 20 U	6 U 25 U	6 U 22 U	5 U 21 U	5 U 21 U	5 U 21 U
2,4-Dinitrophenol	5	5	25 U	20 U	25 U	22 U	21 U	21 U
4-Nitrophenol	5	25 U	20 U	25 U	22 U	21 U	21 U	21 U
Dibenzofuran	NC	6 U 25 U	5 U 20 U	6 U 25 U	6 U 22 U	5 U 21 U	5 U 21 U	5 U 21 U
2,4-Dinitrotoluene	NC	6 U 25 U	5 U 20 U	6 U 25 U	6 U 22 U	5 U 21 U	5 U 21 U	5 U 21 U
Diethylphthalate	NC	0.3 J	5 U 25 U	6 U 20 U	6 U 25 U	0.2 J 6 U 22 U	5 U 21 U	5 U 21 U
4-Chlorophenyl-phenylether	NC	6 U 25 U	5 U 20 U	6 U 25 U	6 U 22 U	5 U 21 U	5 U 21 U	5 U 21 U
Fluorene	NC	6 U 25 U	5 U 20 U	6 U 25 U	6 U 22 U	5 U 21 U	5 U 21 U	5 U 21 U
4-Nitroaniline	NC	5	25 U	20 U	25 U	22 U	21 U	21 U
4,6-Dinitro-2-methylphenol	NC	6 U 25 U	5 U 20 U	6 U 25 U	6 U 22 U	5 U 21 U	5 U 21 U	5 U 21 U
N-Nitrosodiphenylamine	NC	6 U 25 U	5 U 20 U	6 U 25 U	6 U 22 U	5 U 21 U	5 U 21 U	5 U 21 U
4-Bromophenyl-phenylether	NC	6 U 25 U	5 U 20 U	6 U 25 U	6 U 22 U	5 U 21 U	5 U 21 U	5 U 21 U
Hexachlorobenzene	NC	6 U 25 U	0.2 J 6 U 20 U	6 U 25 U	0.3 J 6 U 22 U	5 U 21 U	5 U 21 U	5 U 21 U
Pentachlorophenol	1	6 U 25 U	5 U 20 U	6 U 25 U	6 U 22 U	5 U 21 U	5 U 21 U	5 U 21 U
Phenanthrene	NC	6 U 25 U	5 U 20 U	6 U 25 U	6 U 22 U	5 U 21 U	5 U 21 U	5 U 21 U
Anthracene	NC	6 U 25 U	5 U 20 U	6 U 25 U	6 U 22 U	5 U 21 U	5 U 21 U	5 U 21 U
Di-n-butylphthalate	NC	6 U 25 U	5 U 20 U	6 U 25 U	6 U 22 U	5 U 21 U	5 U 21 U	5 U 21 U
Fluoranthene	NC	6 U 25 U	5 U 20 U	6 U 25 U	6 U 22 U	5 U 21 U	5 U 21 U	5 U 21 U
Pyrene	NC	6 U 25 U	5 U 20 U	6 U 25 U	6 U 22 U	5 U 21 U	5 U 21 U	5 U 21 U
Butylbenzylphthalate	NC	6 UJ 6 U	5 UJ 5 U	6 UJ 6 U	6 UJ 6 U	6 UJ 6 U	6 UJ 6 U	6 UJ 6 U
3,3'-Dichlorobenzidine	NC	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
Benzo(a)anthracene	NC	6 U 6 U	5 U 5 U	6 U 6 U	6 U 6 U	5 U 5 U	5 U 5 U	5 U 5 U
Chrysene	NC	6 UJ 6 U	2 J 5 UJ	6 UJ 6 UJ	6 UJ 6 UJ	6 UJ 6 UJ	6 UJ 6 UJ	0.6 J 0.7 J
bis(2-Ethylhexyl)phthalate	NC	6 UJ 6 U	5 UJ 6 UJ	6 UJ 6 UJ	6 UJ 6 UJ	6 UJ 6 UJ	6 UJ 6 UJ	5 UJ 5 UJ
Di-n-octylphthalate	NC							

See appendix introduction for abbreviations and data qualifiers.
 Surface water results are presented in ug/L (ppb).

TABLE C-8
TCL Semi-Volatile Organic Compounds - Surface Water
Magna Metals Site
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Sample ID Laboratory ID Date Sampled	NYSDEC Water Quality Standards/ Guidance Values (Class D)	SW-1 971121A-07	SW-1 DUP 971144A-11	SW-2 971121A-05	SW-3 971121A-08	SW-4 971144A-01	SW-5 971144A-03	SW-6 971144A-05
Benzo(b)fluoranthene	NC	6 U	5 U	6 U	6 U	5 U	5 U	5 U
Benzo(k)fluoranthene	NC	6 U	5 U	6 U	6 U	5 U	5 U	5 U
Benzo(a)pyrene	0.0012	6 U	5 U	6 U	6 U	5 U	5 U	5 U
Indeno(1,2,3-cd)pyrene	NC	6 U	5 U	6 U	6 U	5 U	5 U	5 U
Dibenz(a,h)anthracene	NC	6 U	5 U	6 U	6 U	5 U	5 U	5 U
Benzo(g,h,i)perylene	NC	6 U	5 U	6 U	6 U	5 U	5 U	5 U

See appendix introduction for abbreviations and data qualifiers.
 Surface water results are presented in ug/L (ppb).

TABLE C-8
TCL Semi-Volatile Organic Compounds - Surface Water
Magna Metals Site
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Sample ID	NYSDEC Water Quality Standards/ Guidance Values	SW-7	SW-8	SW-9	SW-10	SW-11	SW-12
Laboratory ID	971144A-07	971121A-09	971121A-10	971121A-01	971121A-03	971144A-09	971144A-09
Date Sampled	05/14/97	05/12/97	05/12/97	05/12/97	05/12/97	05/13/97	05/13/97
Phenol bis(2-Chloroethyl) ether	5	6 U	6 U	6 U	6 U	5 U	5 U
2-Chlorophenol	NC	6 U	6 U	6 U	6 U	5 U	5 U
2-Methylphenol	1	6 U	6 U	6 U	6 U	5 U	5 U
2,2'-oxybis(1-Chloropropane)	5	6 U	6 U	6 U	6 U	5 U	5 U
4-Methylphenol	NC	0.2 J	6 U	6 U	6 U	5 U	5 U
N-Nitroso-di-n-propylamine	NC	6 U	6 U	6 U	6 U	5 U	5 U
Hexachloroethane	NC	6 U	6 U	6 U	6 U	5 U	5 U
Nitrobenzene	NC	6 U	6 U	6 U	6 U	5 U	5 U
Isophorone	NC	6 U	6 U	6 U	6 U	5 U	5 U
2-Nitrophenol	5	6 U	6 U	6 U	6 U	5 U	5 U
2,4-Dimethylphenol	NC	6 U	6 U	6 U	6 U	5 U	5 U
bis(2-Chloroethoxy)methane	1	6 U	6 U	6 U	6 U	5 U	5 U
2,4-Dichlorophenol	50	6 U	6 U	6 U	6 U	5 U	5 U
1,2,4-Trichlorobenzene	NC	6 U	6 U	6 U	6 U	5 U	5 U
Naphthalene	NC	6 U	6 U	6 U	6 U	5 U	5 U
4-Chloroaniline	NC	6 U	6 U	6 U	6 U	5 U	5 U
Hexachlorobutadiene	10	6 U	6 U	6 U	6 U	5 U	5 U
4-Chloro-3-methylphenol	NC	6 U	6 U	6 U	6 U	5 U	5 U
2-Methylnaphthalene	4.5	6 U	6 U	6 U	6 U	5 U	5 U
Hexachlorocyclopentadiene	1	6 U	6 U	6 U	6 U	5 U	5 U
2,4,6-Trichlorophenol	1	22 U	22 U	22 U	25 U	20 U	20 U
2,4,5-Trichlorophenol	NC	6 U	6 U	6 U	6 U	5 U	5 U
2-Chloronaphthalene	NC	22 U	22 U	22 U	25 U	20 U	20 U
2-Nitroaniline	NC	6 U	6 U	6 U	6 U	5 U	5 U
Dimethylphthalate	NC	6 U	6 U	6 U	6 U	5 U	5 U
Acenaphthylene	NC	6 U	6 U	6 U	6 U	5 U	5 U

See appendix introduction for abbreviations and data qualifiers.
Surface water results are presented in ug/L (ppb).

TABLE C-8
TCL Semi-Volatile Organic Compounds - Surface Water
Magna Metals Site
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Sample ID Laboratory ID	Quality Standards/ Guidance Values (Class D)	SW-7 971144A-07	SW-8 971121A-09	SW-9 971121A-10	SW-10 971121A-01	SW-11 971121A-03	SW-12 971144A-09
Date Sampled	05/14/97	05/12/97	05/12/97	05/12/97	05/12/97	05/13/97	05/13/97
2,6-Dinitrotoluene	NC	6 U 22 U	6 U 22 U	6 U 22 U	6 U 25 U	5 U 20 U	5 U 20 U
3-Nitroaniline	NC	6 U	6 U	6 U	6 U	5 U	5 U
Acenaphthene	NC	5	22 U	22 U	25 U	20 U	20 U
2,4-Dinitrophenoil	5	22 U	22 U	22 U	20 U	20 U	20 U
4-Nitrophenol	5	22 U	22 U	22 U	20 U	20 U	20 U
Dibenzofuran	NC	6 U	6 U	6 U	6 U	5 U	5 U
2,4-Dinitrotoluene	NC	6 U	6 U	6 U	6 U	5 U	5 U
Diethylphthalate	NC	6 U	0.2 J	6 U	6 U	5 U	5 U
4-Chlorophenyl-phenylether	NC	6 U	6 U	6 U	6 U	5 U	5 U
Fluorene	NC	6 U	6 U	6 U	6 U	5 U	5 U
4-Nitroaniline	NC	22 U	22 U	22 U	25 U	20 U	20 U
4,6-Dinitro-2-methylphenol	5	22 U	22 U	22 U	20 U	20 U	20 U
N-Nitrosodiphenylamine	NC	6 U	6 U	6 U	6 U	5 U	5 U
4-Bromophenyl-phenylether	NC	6 U	6 U	6 U	6 U	5 U	5 U
Hexachlorobenzene	NC	6 U	6 U	6 U	6 U	5 U	5 U
Pentachlorophenol	1	22 U	22 U	22 U	25 U	20 U	20 U
Phenanthrene	NC	6 U	6 U	6 U	6 U	5 U	5 U
Anthracene	NC	6 U	6 U	6 U	6 U	5 U	5 U
Di-n-butylphthalate	NC	6 U	6 U	6 U	6 U	5 U	5 U
Fluoranthene	NC	6 U	6 U	0.3 J	6 U	5 U	5 U
Pyrene	NC	6 U	6 U	0.3 J	6 U	5 U	5 U
Burylbenzylphthalate	NC	6 UJ	6 UJ	6 UJ	6 UJ	5 UJ	5 UJ
3,3'-Dichlorobenzidine	NC	6 U	6 U	6 U	6 U	5 U	5 U
Benz(a)anthracene	NC	6 U	6 U	6 U	6 U	5 U	5 U
Chrysene	NC	6 U	1 J	6 UJ	6 UJ	5 U	5 U
bis(2-Ethylhexyl)phthalate	NC	6 UJ	6 UJ	6 UJ	6 UJ	3 J	3 J
Di-n-octylphthalate	NC	6 UJ	6 UJ	6 UJ	6 UJ	5 UJ	5 UJ

See appendix introduction for abbreviations and data qualifiers.
Surface water results are presented in ug/L (ppb).

TABLE C-8
TCL Semi-Volatile Organic Compounds - Surface Water
Magna Metals Site
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Sample ID	NYSDEC Water Quality Standards/ Guidance Values (Class D)	SW-7 971144A-07	SW-8 971121A-09	SW-9 971121A-10	SW-10 971121A-01	SW-11 971121A-03	SW-12 971144A-09
Laboratory ID	Date Sampled	05/14/97	05/12/97	05/12/97	05/12/97	05/12/97	05/13/97
Benzo(b)fluoranthene	NC	6 U	6 U	6 U	6 U	5 U	5 U
Benzo(k)fluoranthene	NC	6 U	6 U	6 U	6 U	5 U	5 U
Benzo(a)pyrene	0.0012	6 U	6 U	6 U	6 U	5 U	5 U
Indeno(1,2,3-cd)pyrene	NC	6 U	6 U	6 U	6 U	5 U	5 U
Dibenz(a,h)anthracene	NC	6 U	6 U	6 U	6 U	5 U	5 U
Benzo(g,h,i)perylene	NC	6 U	6 U	6 U	6 U	5 U	5 U

See appendix introduction for abbreviations and data qualifiers.
 Surface water results are presented in ug/L (ppb).

TABLE C-9
TCL Pesticide/PCB Compounds - Surface Water
Magna Metals Site
Page 1 of 1

Sample ID Laboratory ID Date Sampled	NYSDEC Water Quality Standards/ Guidance Values (Class D)	SW-1 DUP 72093011 05/12/97	SW-4 72093001 05/14/97	SW-10 72054001 05/12/97
alpha-BHC	2	0.01 U	0.01 U	0.01 U
beta-BHC	2	0.01 U	0.01 U	0.01 U
delta-BHC	2	0.01 U	0.01 U	0.01 U
gamma-BHC (Lindane)	2	0.01 U	0.01 U	0.01 U
Heptachlor	0.001	0.01 U	0.01 U	0.01 U
Aldrin	0.001	0.01 U	0.01 U	0.01 U
Heptachlor epoxide	0.001	0.01 U	0.01 U	0.01 U
Endosulfan I	0.22	0.01 U	0.01 U	0.01 U
Dieldrin	0.001	0.02 U	0.02 U	0.02 U
4,4'-DDE	0.001	0.02 U	0.02 U	0.02 U
Endrin	0.002	0.02 U	0.02 U	0.02 U
Endosulfan II	0.22	0.02 U	0.02 U	0.02 U
4,4'-DDD	0.001	0.02 U	0.02 U	0.02 U
Endosulfan sulfate	NC	0.02 U	0.02 U	0.02 U
4,4'-DDT	0.001	0.02 U	0.02 U	0.02 U
Methoxychlor	NC	0.11 U	0.1 U	0.11 U
Endrin ketone	NC	0.02 U	0.02 U	0.02 U
Endrin aldehyde	NC	0.02 U	0.02 U	0.02 U
alpha-Chlordane	0.002	0.01 U	0.01 U	0.01 U
gamma-Chlordane	0.002	0.01 U	0.01 U	0.01 U
Toxaphene	1.6	1.1 U	1 U	1.1 U
Aroclor-1016	6.00E-07	0.21 U	0.2 U	0.22 U
Aroclor-1221	6.00E-07	0.43 U	0.4 U	0.44 U
Aroclor-1232	6.00E-07	0.21 U	0.2 U	0.22 U
Aroclor-1242	6.00E-07	0.21 U	0.2 U	0.22 U
Aroclor-1248	6.00E-07	0.21 U	0.2 U	0.22 U
Aroclor-1254	6.00E-07	0.21 U	0.2 U	0.22 U
Aroclor-1260	6.00E-07	0.21 U	0.2 U	0.22 U

See appendix introduction for abbreviations and data qualifiers.
 Surface water results are presented in ug/L (ppb).

TABLE C-10
TAL Metals and Cyanide - Surface Water
Magna Metals Site
Page 1 of 2

Sample ID	NYSDEC Water Quality Standards/ Guidance Values (Class D)	SW-1 971121A-07	SW-1 DUP 971144A-11	SW-2 971121A-05	SW-3 971121A-08	SW-4 971144A-01	SW-5 971144A-03	SW-6 971144A-05
Date Sampled	05/12/97	05/12/97	05/12/97	05/12/97	05/12/97	05/14/97	05/14/97	05/14/97
Aluminum	NC	54.2 B	135 B	126 B	454	103 B	178 B	2660
Antimony	NC	3 U	3 U	3 U	3 U	3.5 B	3.1 B	3.5 B
Arsenic	360	3 U	3 U	3 U	3 U	3 U	3 U	4 B
Barium	NC	27.2 B	56 B	25.4 B	33.7 B	37.7 B	68 B	154 B
Beryllium	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cadmium	6.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	NC	22200	23500	20700	21500	22600	23400	21800
Chromium	2490	1 U	1 U	1.4 B	3.5 B	1 U	1.5 B	39.6
Cobalt	110	1 U	1 U	1 U	1 U	1 U	1.4 B	6.7 B
Copper	26.8	4.9 B	6.5 B	8 B	14 B	4.3 B	14.1 B	491
Iron	300	658	1060 J	908	1510	856 J	1110 J	7240 J
Lead	144	2 U	R	2.2 JB	2 JB	2 U	2 U	R
Magnesium	NC	18900	18800	17300	17900	18200	15200	20200
Manganese	NC	209	422	188	182	336	888	625
Mercury	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	2577	2.3 B	10.6 B	4.6 B	4 B	8.9 B	15.7 B	136
Potassium	NC	2230 B	2300 JB	2080 B	2160 B	2360 JB	2060 JB	1990 JB
Selenium	NC	3 U	3.4 B	3 U	4.5 B	3 U	3 U	10.2
Silver	8.6	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Sodium	NC	20300	20400	18600	19200	19600	18800	27000
Thallium	20	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ
Vanadium	190	1 U	1 U	1 U	1.6 B	1 U	1.3 JB	8.6 B
Zinc	463	10.7 B	21.8 J	16.7 B	37	17.8 B	28.1 J	232 J
Cyanide	22	10 U	39.6 J	10 U	10 U	10 UJ	10 U	220

See appendix introduction for abbreviations and data qualifiers.
Surface water results are presented in ug/L (ppb).

TABLE C-10
TAL Metals and Cyanide - Surface Water
Magna Metals Site
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Sample ID Laboratory ID	NYSDEC Water Quality Standards/ Guidance Values (Class D)	SW-7 971144A-07	SW-8 971121A-09	SW-9 971121A-10	SW-10 971121A-01	SW-11 971121A-03	SW-12 971144A-09
Date Sampled	05/14/97	05/12/97	05/12/97	05/12/97	05/12/97	05/12/97	05/12/97
Aluminum	NC	13100	84.8 B	8960	118 B	41.9 B	64.8 B
Antimony	NC	4.9 B	3 U	3 U	3 U	3 U	3.6 B
Arsenic	360	18.3	3 U	4.1 B	3 U	3 U	3 U
Barium	NC	250	69.7 B	631	68.5 B	52.4 B	33.4 B
Beryllium	NC	1 U	1 U	1 U	1 U	1 U	1 U
Cadmium	6.4	1.7 B	1 U	1.1 B	1 U	1 U	1 U
Calcium	NC	18800	18700	40600	18100	16300	23000
Chromium	2490	253	1 U	69.7	1.1 B	1 U	1 U
Cobalt	110	32.8 B	1 U	31.4 B	1 U	1 U	1 U
Copper	26.8	3960	6.2 B	95.4	5.3 B	2.8 B	2.7 B
Iron	300	34100 J	272	24000	346	94.2 B	363 J
Lead	144	88	2 U	43.6	2 U	2 U	R
Magnesium	NC	13800	19300	68600	19300	14200	13800
Manganese	NC	1010	109	1760	110	57.4	60.3
Mercury	0.2	0.22	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	2577	558	11.9 B	204	6.2 B	5.5 B	3.5 B
Potassium	NC	2790 JB	1900 B	5980 J	1820 B	1510 B	1970 JB
Selenium	NC	40.1	6.7	3 B	3 U	3 U	3 U
Silver	8.6	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Sodium	NC	21700	27900	30300	26400	23600	17600
Thallium	20	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ
Vanadium	190	25.7 B	1 U	29.6 B	1 U	1 U	1 U
Zinc	463	2090 J	20.8	146	27.3	18.3 B	27.3 J
Cyanide	22	858	10 U	18.7	10 U	10 U	10 U

See appendix introduction for abbreviations and data qualifiers.
Surface water results are presented in ug/L (ppb).

TABLE C-11
Hardness - Surface Water
Magna Metals Site
Page 1 of 2

	SW-1 72054-12	SW-1 DUP 72093-11	SW-2 72054-9	SW-3 72054-13	SW-4 72093-1	SW-5 72093-3	SW-6 72093-5
Date Sampled	05/12/97	05/12/97	05/12/97	05/12/97	05/14/97	05/14/97	05/14/97
Hardness	134.17	139.3	131.2	131.87	141.54	131.11	130.55

See appendix introduction for abbreviations and data qualifiers.
Surface water results are presented in mg/L (ppm).

TABLE C-11
Hardness - Surface Water
Magna Metals Site
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Sample ID	SW-7	SW-8	SW-9	SW-10	SW-11	SW-12
Laboratory ID	72093-7	72054-14	72054-15	72054-1	72054-7	72093-9
Date Sampled	05/14/97	05/12/97	05/12/97	05/12/97	05/12/97	05/12/97
Hardness	103.39	135.1	479	131.54	101.98	127.56

See appendix introduction for abbreviations and data qualifiers.
Surface water results are presented in mg/L (ppm).

TABLE C-12
TCL Volatile Organic Compounds - Sediment
Magna Metals Site
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Sample ID Laboratory ID	NYSDEC Sediment Criteria ug/gOC	Normalized Sediment Criteria* ug/kg	SD-1 72054019	SD-1 DUP 72093012	SD-2 72054010	SD-3 72054020	SD-4 72093002
Date Sampled		05/12/97	05/12/97	05/12/97	05/12/97	05/12/97	05/14/97
Chloromethane	NC	NC	16 U	67 U	34 UJ	R	40 UJ
Bromomethane	NC	NC	16 U	67 U	34 UJ	R	40 UJ
Vinyl Chloride	0.07 HH	5.98	16 U	67 U	34 UJ	R	40 UJ
Chloroethane	NC	NC	16 U	67 U	34 UJ	R	40 UJ
Methylene Chloride	NC	NC	18 UJ	67 UJ	34 UJ	R	40 UJ
Acetone	NC	NC	74 UJ	320 UJ	80 UJ	R	340 JB
Carbon Disulfide	NC	NC	16 U	67 UJ	34 UJ	R	12 J
1,1-Dichloroethene	0.02 HH	1.71	16 U	67 UJ	34 UJ	R	40 UJ
1,1-Dichloroethane	NC	NC	16 U	67 UJ	34 UJ	R	40 UJ
1,2-Dichloroethene (total)	NC	NC	16 U	67 UJ	34 UJ	R	40 UJ
Chloroform	0.7 HH	59.75	16 U	67 UJ	34 UJ	R	40 UJ
1,2-Dichloroethane	NC	NC	21	74	11 J	R	95 J
2-Butanone	NC	NC	16 U	67 UJ	34 UJ	R	40 UJ
1,1,1-Trichloroethane	0.6 HH	51.22	16 U	67 UJ	34 UJ	R	40 UJ
Carbon Tetrachloride	NC	NC	16 U	67 UJ	34 UJ	R	40 UJ
Bromodichloromethane	NC	NC	16 U	67 UJ	34 UJ	R	40 UJ
1,2-Dichloropropane	NC	NC	16 U	67 UJ	34 UJ	R	40 UJ
cis-1,3-Dichloropropene	2 HH	170.72	16 U	67 UJ	34 UJ	R	40 UJ
Trichloroethene	NC	NC	16 UJ	67 UJ	34 UJ	R	40 UJ
Dibromochloromethane	0.6 HH	51.22	16 U	67 UJ	34 UJ	R	40 UJ
1,1,2-Trichloroethane	0.6 HH	51.22	16 U	67 UJ	34 UJ	R	40 UJ
Benzene	0.6 HH	51.22	16 U	67 UJ	34 UJ	R	40 UJ
trans-1,3-Dichloropropene	NC	NC	16 U	67 UJ	34 UJ	R	40 UJ
Bromoform	NC	NC	16 U	67 UJ	34 UJ	R	40 UJ
4-Methyl-2-Pentanone	NC	NC	16 U	67 UJ	12 J	R	40 UJ
2-Hexanone	NC	NC	16 U	67 UJ	18 J	R	40 UJ
Tetrachloroethene	0.8 HH	68.29	16 U	67 UJ	34 UJ	R	40 UJ

See appendix introduction for abbreviations and data qualifiers.

Sediment results are presented in ug/kg (ppb).

*Criteria normalized using average TOC concentration in sediments

TABLE C-12
TCL Volatile Organic Compounds - Sediment
Magna Metals Site
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Sample ID Laboratory ID Date Sampled	NYSDDEC Sediment Criteria ug/gOC	Normalized Sediment Criteria* ug/kg	SD-1 72054019 05/12/97	SD-1 DUP 72093012 05/12/97	SD-2 72054010 05/12/97	SD-3 72054020 05/12/97	SD-4 72093002 05/14/97
1,1,2,2-Tetrachloroethane	0.3 HH	25.61	16 U	67 UJ	34 UJ	R	40 UJ
Toluene	NC	NC	16 U	67 UJ	34 UJ	R	40 UJ
Chlorobenzene	NC	NC	16 U	67 UJ	34 UJ	R	40 UJ
Ethylbenzene	NC	NC	16 U	67 UJ	34 UJ	R	40 UJ
Styrene	NC	NC	16 U	67 UJ	34 UJ	R	40 UJ
Xylene (total)	NC	NC	16 U	67 UJ	34 UJ	R	40 UJ

See appendix introduction for abbreviations and data qualifiers.
Sediment results are presented in ug/kg (ppb).

*Criteria normalized using average TOC concentration in sediments.

TABLE C-12
TCL Volatile Organic Compounds - Sediment
Magma Metals Site
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Sample ID	NYSDEC Laboratory ID	Normalized Sediment Criteria*	SD-5 72093004	SD-6 72093006	SD-7 72093008	SD-8 72054017	SD-9 72054018
Date Sampled	ug/g OC	ug/kg	05/14/97	05/14/97	05/14/97	05/12/97	05/12/97
Chloromethane	NC	NC	33 UJ	33 UJ	7 J	21 UJ	53 UJ
Bromomethane	NC	NC	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
Vinyl Chloride	0.07 HH	5.98	33 UJ	33 UJ	26 UJ	21 UJ	25 J
Chloroethane	NC	NC	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
Methylene Chloride	NC	NC	37 UJ	33 UJ	25 UJ	26 UJ	100 UJ
Acetone	NC	NC	770 JB	88 UJ	96 UJ	150 JB	530 JB
Carbon Disulfide	NC	NC	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
1,1-Dichloroethene	0.02 HH	1.71	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
1,1-Dichloroethane	NC	NC	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
1,2-Dichloroethene (total)	NC	NC	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
Chloroform	NC	NC	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
1,2-Dichloroethane	0.7 HH	59.75	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
2-Butanone	NC	NC	260 J	22 J	39 J	36 J	160 J
1,1,1-Trichloroethane	NC	NC	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
Carbon Tetrachloride	0.6 HH	51.22	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
Bromodichloromethane	NC	NC	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
1,2-Dichloropropane	NC	NC	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
cis-1,3-Dichloropropene	NC	NC	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
Trichloroethene	2 HH	170.72	20 J	33 UJ	26 UJ	21 UJ	22 J
Dibromochloromethane	NC	NC	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
1,1,2-Trichloroethane	0.6 HH	51.22	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
Benzene	0.6 HH	51.22	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
trans-1,3-Dichloropropene	NC	NC	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
Bromoform	NC	NC	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
4-Methyl-2-Pentanone	NC	NC	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
2-Hexanone	NC	NC	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
Tetrachloroethene	0.8 HH	68.29	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ

See appendix introduction for abbreviations and data qualifiers.

Sediment results are presented in ug/kg (ppb).

*Criteria normalized using average TOC concentration in sediments.

TABLE C-12
TCL Volatile Organic Compounds - Sediment
Magna Metals Site
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Sample ID Laboratory ID Date Sampled	NYSDDEC Sediment Criteria ug/gOC	Normalized Sediment Criteria* ug/kg	SD-5 72093004 05/14/97	SD-6 72093006 05/14/97	SD-7 72093008 05/14/97	SD-8 72054017 05/12/97	SD-9 72054018 05/12/97
1,1,2,2-Tetrachloroethane	0.3 HH	25.61	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
Toluene	NC	NC	33 UJ	33 UJ	12 J	21 UJ	53 UJ
Chlorobenzene	NC	NC	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
Ethylbenzene	NC	NC	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
Styrene	NC	NC	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ
Xylene (total)	NC	NC	33 UJ	33 UJ	26 UJ	21 UJ	53 UJ

See appendix introduction for abbreviations and data qualifiers.
Sediment results are presented in ug/kg (ppb).
*Criteria normalized using average TOC concentration in sediments.

TABLE C-12
TCL Volatile Organic Compounds - Sediment
Magna Metals Site
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Sample ID Laboratory ID	NYSDEC Sediment Criteria ug/gOC	Normalized Sediment Criteria* ug/kg	SD-10 72054004 05/12/97	SD-11 72054008 05/12/97	SD-12 72093010 05/14/97
Chloromethane	NC	NC	12 U	12 U	12 U
Bromomethane	NC	NC	12 U	12 U	12 U
Vinyl Chloride	0.07 HH	5.98	12 U	12 U	12 U
Chloroethane	NC	NC	12 U	12 U	12 U
Methylene Chloride	NC	NC	12 UJ	12 UJ	12 UJ
Acetone	NC	NC	14 UJ	12 UJ	12 UJ
Carbon Disulfide	NC	NC	12 U	12 U	12 U
1,1-Dichloroethene	0.02 HH	1.71	12 U	12 U	12 U
1,1-Dichloroethane	NC	NC	12 U	12 U	12 U
1,2-Dichloroethene (total)	NC	NC	12 U	12 U	12 U
Chloroform	0.7 HH	59.75	12 U	12 U	12 U
1,2-Dichloroethane	NC	NC	12 U	12 U	12 U
2-Butanone	NC	NC	12 U	12 U	12 U
1,1,1-Trichloroethane	NC	NC	12 U	12 U	12 U
Carbon Tetrachloride	0.6 HH	51.22	12 U	12 U	12 U
Bromodichloromethane	NC	NC	12 U	12 U	12 U
1,2-Dichloropropane	NC	NC	12 U	12 U	12 U
cis-1,3-Dichloropropene	NC	NC	12 U	12 U	12 U
Trichloroethene	2 HH	170.72	12 U	12 U	12 U
Dibromochloromethane	NC	NC	12 UJ	12 UJ	12 UJ
1,1,2-Trichloroethane	0.6 HH	51.22	12 U	12 U	12 U
Benzene	0.6 HH	51.22	12 U	12 U	12 U
trans-1,3-Dichloropropene	NC	NC	12 U	12 U	12 U
Bromoform	NC	NC	12 U	12 U	12 U
4-Methyl-2-Pentanone	NC	NC	5 J	12 U	12 U
2-Hexanone	NC	NC	10 J	12 UJ	12 U
Tetrachloroethene	0.8 HH	68.29	4 J	12 U	12 U

See appendix introduction for abbreviations and data qualifiers.

Sediment results are presented in ug/kg (ppb).

*Criteria normalized using average TOC concentration in sediments.

TABLE C-12
TCL Volatile Organic Compounds - Sediment
Magna Metals Site
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Sample ID Laboratory ID	NYSDDEC Sediment Criteria	Normalized Sediment Criteria*	SD-10 72054004	SD-11 72054008	SD-12 72093010
Date Sampled	ug/gOC	ug/kg	05/12/97	05/12/97	05/14/97
1,1,2,2-Tetrachloroethane	0.3 HH	25.61	12 U	12 U	12 U
Toluene	NC	NC	12 U	12 U	12 U
Chlorobenzene	NC	NC	12 U	12 U	12 U
Ethylbenzene	NC	NC	12 U	12 U	12 U
Styrene	NC	NC	12 U	12 U	12 U
Xylene (total)	NC	NC	12 U	12 U	12 U

See appendix introduction for abbreviations and data qualifiers.
Sediment results are presented in ug/kg (ppb).
*Criteria normalized using average TOC concentration in sediments.

TABLE C-13
TCL Semi-Volatile Organic Compounds - Sediment
Magna Metals Site
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Sample ID Laboratory ID Date Sampled	NYSDDEC Sediment Criteria ug/gOC	Normalized Sediment Criteria* ug/kg	SD-1 971121A-14 05/12/97	SD-1 DUP 971144A-12 05/12/97	SD-2 971121A-06 05/12/97	SD-3 971121A-15 05/12/97	SD-4 971144A-02 05/14/97
Benzo(a)anthracene	1.3 HH	110.97	1200	2100 UJ	470 U	1000 UJ	1800 UJ
Chrysene	1.3 HH	110.97	1300	2100 UJ	470 U	1000 UJ	1800 UJ
bis(2-Ethylhexyl)phthalate	199.5 CT	17029.72	530 U	300 J	470 U	1000 UJ	210 J
Di-n-octylphthalate	NC	NC	530 UJ	2100 UJ	470 UJ	1000 UJ	1800 UJ
Benzo(b)fluoranthene	1.3 HH	110.97	840	2100 UJ	470 U	1000 UJ	150 J
Benzo(k)fluoranthene	1.3 HH	110.97	950	2100 UJ	470 U	1000 UJ	150 J
Benzo(a)pyrene	1.3 HH	110.97	1000	230 J	58 J	1000 UJ	120 J
Indeno(1,2,3-cd)pyrene	1.3 HH	110.97	110 J	2100 UJ	470 U	1000 UJ	1800 UJ
Dibenz(a,h)anthracene	NC	NC	530 U	2100 UJ	470 U	1000 UJ	1800 UJ
Benzo(g,h,i)perylene	NC	NC	55 J	2100 UJ	470 U	1000 UJ	1800 UJ

See appendix introduction for abbreviations and data qualifiers.
Sediment results are presented in ug/kg (ppb).

*Criteria normalized using average TOC concentration in sediments.

TABLE C-13
TCL Semi-Volatile Organic Compounds - Sediment
Magna Metals Site
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Sample ID	NYSDEC Laboratory ID	Sediment Criteria ug/gOC	Normalized Sediment Criteria* ug/kg	SD-5 971144A-04 05/14/97	SD-6 971144A-06 05/14/97	SD-7 971144A-08 05/14/97	SD-8 971121A-12 05/14/97	SD-9 971121A-13 05/12/97
Benzo(a)anthracene	1.3 HH	110.97	180 J	95 J	300 J	710 J	260 J	
Chrysene	1.3 HH	110.97	300 J	150 J	410 J	1000 J	370 J	
bis(2-Ethylhexyl)phthalate	199.5 CT	17029.72	250 J	140 J	1100 UJ	1000 UJ	690 UJ	1600 UJ
Di-n-octylphthalate	NC	NC	1300 UJ	1100 UJ	1000 UJ	690 UJ	690 UJ	1600 UJ
Benzo(b)fluoranthene	1.3 HH	110.97	260 J	130 J	360 J	820 J	320 J	
Benzo(k)fluoranthene	1.3 HH	110.97	210 J	120 J	320 J	780 J	300 J	
Benzo(a)pyrene	1.3 HH	110.97	180 J	1100 UJ	300 J	810 J	320 J	
Indeno(1,2,3-cd)pyrene	1.3 HH	110.97	1300 UJ	1100 UJ	290 J	87 J	150 J	
Dibenz(a,h)anthracene	NC	NC	1300 UJ	1100 UJ	1000 UJ	690 UJ	1600 UJ	
Benzo(g,h,i)perylene	NC	NC	1300 UJ	1100 UJ	250 J	51 J	120 J	

See appendix introduction for abbreviations and data qualifiers.
Sediment results are presented in ug/kg (ppb).

*Criteria normalized using average TOC concentration in sediments.

TABLE C-13
TCL Semi-Volatile Organic Compounds - Sediment
Magna Metals Site
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Sample ID Laboratory ID Date Sampled	NYSDEC Sediment Criteria ug/QOC	Normalized Sediment Criteria* ug/kg	SD-10 971121A-02 05/12/97	SD-11 971121A-04 05/12/97	SD-12 971144A-10 05/14/97
Phenol	0.5 CT	42.68	410 U	380 U	400 U
bis(2-Chloroethyl) ether	0.03 HH	2.56	410 U	380 U	400 U
2-Chlorophenol	NC	NC	410 U	380 U	400 U
1,3-Dichlorobenzene	12 CT	1024.34	410 U	380 U	400 U
1,4-Dichlorobenzene	12 CT	1024.34	410 U	380 U	400 U
1,2-Dichlorobenzene	12 CT	1024.34	410 U	380 U	400 U
2-Methylphenol	0.5 CT	42.68	410 U	380 U	400 U
2,2'-oxybis(1-Chloropropane)	NC	NC	410 U	380 U	400 U
4-Methylphenol	0.5 CT	42.68	410 U	380 U	400 U
N-Nitroso-di-n-propylamine	NC	NC	410 U	380 U	400 U
Hexachloroethane	NC	NC	960	380 U	400 U
Nitrobenzene	NC	NC	410 U	380 U	400 U
Isophorone	NC	NC	410 U	380 U	400 U
2-Nitrophenol	0.5 CT	42.68	410 U	380 U	400 U
2,4-Dimethylphenol	0.5 CT	42.68	410 U	380 U	400 U
2,4-Dimethoxyphenol		0.00	410 U	380 U	400 U
bis (2-Chloroethoxy) methane				380 U	400 U
2,4-Dichlorophenol	0.5 CT	42.68	410 U	380 U	400 U
1,2,4-Trichlorobenzene	91 CT	7767.94	410 U	380 U	400 U
Naphthalene	NC	NC	410 U	380 U	400 U
4-Chloroaniline	NC	NC	410 U	380 U	400 U
Hexachlorobutadiene	0.3 HH	25.61	410 U	380 U	400 U
4-Chloro-3-methylphenol	0.6 CTY	51.22	410 U	380 U	400 U
2-Methylnaphthalene	NC	NC	410 U	380 U	400 U
Hexachlorocyclopentadiene	4.4 CT	375.59	410 UJ	380 UJ	400 UJ
2,4,6-Trichlorophenol	0.6 CT	51.22	410 U	380 U	400 U
2,4,5-Trichlorophenol	0.6 CT	51.22	1000 U	950 U	1000 U
2-Chloronaphthalene	NC	NC	410 U	380 U	400 U

See appendix introduction for abbreviations and data qualifiers.

Sediment results are presented in ug/kg (ppb).

*Criteria normalized using average TOC concentration in sediments.

TABLE C-13
TCL Semi-Volatile Organic Compounds - Sediment
Magna Metals Site
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Sample ID	NYSDEC Sediment Criteria ug/g OC	Normalized Sediment Criteria*	SD-10 971121A-02 05/12/97	SD-11 971121A-04 05/12/97	SD-12 971144A-10 05/14/97
2-Nitroaniline	NC	NC	1000 U	950 U	1000 U
Dimethylphthalate	NC	NC	410 U	380 U	400 U
Acenaphthylene	NC	NC	410 U	380 U	400 U
2,6-Dinitrotoluene	NC	NC	410 U	380 U	400 U
3-Nitroaniline	NC	NC	1000 U	950 U	1000 U
Acenaphthene	140 CT	11950.68	410 U	380 U	400 U
2,4-Dinitrophenol	0.5 CT	42.68	1000 UJ	950 UJ	1000 U
4-Nitrophenol	0.5 CT	42.68	1000 UJ	950 UJ	1000 UJ
Dibenzofuran	NC	NC	410 U	380 U	400 U
2,4-Dinitrotoluene	NC	NC	410 U	380 U	400 U
Diethylphthalate	NC	NC	410 U	380 U	400 U
4-Chlorophenyl-phenylether	NC	NC	410 U	380 U	400 U
Fluorene	NC	NC	410 U	380 U	400 U
4-Nitroaniline	NC	NC	1000 U	950 U	1000 U
4,6-Dinitro-2-methylphenol	NC	NC	1000 U	950 U	1000 U
N-Nitrosodiphenylamine	NC	NC	410 U	380 U	400 U
4-Bromophenyl-phenylether	NC	NC	410 U	380 U	400 U
Hexachlorobenzene	0.15 HH	12.80	410 U	380 U	400 U
Pentachlorophenol	0.6 CT	51.22	1000 UJ	950 UJ	1000 U
Phenanthrene	120 CT	10243.44	87 J	35 J	400 U
Anthracene	NC	NC	17 J	6 J	400 U
Carbazole	NC	NC	410 U	380 U	400 U
Di-n-butylphthalate	NC	NC	410 U	380 U	400 U
Fluoranthene	1,020 CT	87069.24	140 J	71 J	400 U
Pyrene	NC	NC	140 J	72 J	400 U
Butylbenzylphthalate	NC	NC	410 U	380 U	400 U
3,3'-Dichlorobenzidine	NC	NC	410 U	380 U	400 U

See appendix introduction for abbreviations and data qualifiers.

Sediment results are presented in ug/kg (ppb).

*Criteria normalized using average TOC concentration in sediments.

TABLE C-13
TCL Semi-Volatile Organic Compounds - Sediment
Magna Metals Site
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Sample ID Laboratory ID Date Sampled	NYSDEC Sediment Criteria ug/gOC	Normalized Sediment Criteria* ug/kg	SD-10 971121A-02 05/12/97	SD-11 971121A-04 05/12/97	SD-12 971144A-10 05/14/97
Benzo(a)anthracene	1.3 HH	110.97	62 J	31 J	400 U
Chrysene	1.3 HH	110.97	81 J	46 J	400 U
bis(2-Ethylhexyl)phthalate	199.5 CT	17029.72	410 U	380 U	400 U
Di-n-octylphthalate	NC	NC	410 UJ	380 UJ	400 U
Benzo(b)fluoranthene	1.3 HH	110.97	60 J	32 J	400 UJ
Benzo(k)fluoranthene	1.3 HH	110.97	65 J	38 J	400 U
Benzo(a)pyrene	1.3 HH	110.97	60 J	33 J	400 U
Indeno(1,2,3-cd)pyrene	1.3 HH	110.97	41 J	20 J	400 U
Dibenz(a,h)anthracene	NC	NC	410 U	380 U	400 U
Benzo(g,h,i)perylene	NC	NC	34 J	18 J	400 U

See appendix introduction for abbreviations and data qualifiers.

Sediment results are presented in ug/kg (ppb).

*Criteria normalized using average TOC concentration in sediments.

TABLE C-14
TCL Pesticide/PCB Compounds - Sediment
Magna Metals Site
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Sample ID Laboratory ID Date Sampled	NYSDEC Sediment Criteria ug/gOC	Normalized Sediment Criteria* ug/kg	SD-1 DUP 72093012 05/12/97	SD-4 72093002 05/14/97	SD-10 72054004 05/12/97
alpha-BHC	0.06 HH, CT	5.12	11 UJ	6.8 UJ	2.1 U
beta-BHC	0.06 HH, CT	5.12	11 UJ	6.8 UJ	2.1 U
delta-BHC	0.06 HH, CT	5.12	11 UJ	6.8 UJ	2.1 U
gamma-BHC (Lindane)	0.06 HH, CT	5.12	11 UJ	6.8 UJ	2.1 U
Heptachlor	0.0008 HH	0.07	11 UJ	6.8 UJ	2.1 U
Aldrin	0.1 HH	8.54	11 UJ	6.8 UJ	2.1 U
Heptachlor epoxide	0.0008 HH	0.07	11 UJ	6.8 UJ	2.1 U
Endosulfan I	NC	NC	11 UJ	6.8 UJ	2.1 U
Dieldrin	0.1 HH	8.54	22 UJ	13 UJ	4 U
4,4'-DDE	0.01 HH	0.85	22 UJ	13 UJ	4 U
Endrin	0.8 HH, WB	68.29	22 UJ	13 UJ	4 U
Endosulfan II	NC	NC	22 UJ	13 UJ	4 U
4,4'-DDD	0.01 HH	0.85	22 UJ	13 UJ	4 U
4,4'-DDT	0.01 HH	0.85	22 UJ	13 UJ	4 U
Methoxychlor	0.6 CT	51.22	110 UJ	68 UJ	21 U
Endrin ketone	0.8 WB	68.29	22 UJ	13 UJ	4 U
Endrin aldehyde	0.8 WB	68.29	22 UJ	13 UJ	4 U
alpha-Chlordane	0.001 HH	0.09	11 UJ	6.8 UJ	3.5 JP
gamma-Chlordane	0.001 HH	0.09	11 UJ	6.8 UJ	3.4
Toxaphene	0.01 CT	0.85	1100 UJ	680 UJ	210 U
Aroclor-1016	0.0008 HH	0.07	220 UJ	130 UJ	40 U
Aroclor-1221	0.0008 HH	0.07	450 UJ	270 UJ	82 U
Aroclor-1232	0.0008 HH	0.07	220 UJ	130 UJ	40 U
Aroclor-1242	0.0008 HH	0.07	220 UJ	130 UJ	40 U
Aroclor-1248	0.0008 HH	0.07	220 UJ	130 UJ	40 U
Aroclor-1254	0.0008 HH	0.07	220 UJ	130 UJ	40 U
Aroclor-1260	0.0008 HH	0.07	220 UJ	130 UJ	40 U

See appendix introduction for abbreviations and data qualifiers.

Sediment results are presented in ug/kg (ppb).

* Criteria normalized using average TOC concentration in sediments.

TABLE C-15
TAL Metals and Cyanide - Sediment
Magna Metals Site
Page 3 of 3

Sample ID	NYSDEC	Sediment Criteria	NYSDEC	SD-10	SD-11	SD-12
Laboratory ID		Lowest Effect Level	Sediment Criteria	971121A-02	971121A-04	971144A-10
Date Sampled	mg/kg	Severe Effect Level	mg/kg	05/12/97	05/12/97	05/14/97
Aluminum	NC	NC	3490	4970	2920	
Antimony	2	25	0.53 U	0.71 U	0.68 UJ	
Arsenic	6	33	1.1 B	1.2 B	0.68 U	
Barium	NC	NC	32.6 B	52	33.8 B	
Beryllium	NC	NC	0.18 U	0.24 U	0.23 U	
Cadmium	0.6	9	0.31 B	0.37 B	0.23 U	
Calcium	NC	NC	3840	2590	882 B	
Chromium	26	110	11.4	13.1	R	
Cobalt	NC	NC	4.9 B	7.9 B	4.6 B	
Copper	16	110	12.3	17.2	4.4 B	
Iron	20,000 (2%)	40,000 (4%)	9820	12800	7320	
Lead	31	110	3.9	5	3	
Magnesium	NC	NC	4060	3950	2130	
Manganese	460	1100	R	R	87	
Mercury	0.15	1.3	0.11 U	0.12 U	0.082 U	
Nickel	16	50	26.9	36	17.3	
Potassium	NC	NC	413 B	805 B	207 B	
Selenium	NC	NC	0.61 B	0.71 U	0.68 U	
Silver	1	2.2	0.18 U	0.24 U	0.26 B	
Sodium	NC	NC	92.7 B	104 B	59.8 B	
Thallium	NC	NC	R	0.71 UJ	0.68 U	
Vanadium	NC	NC	8.1 B	14.1	5.8 B	
Zinc	120	270	36.8	47.2	29.3 J	
Cyanide	NC	NC	0.54 U	0.57 U	0.59 U	

See appendix introduction for abbreviations and data qualifiers.
Sediment results are presented in mg/kg (ppm).

TABLE C-16
 Total Organic Carbon - Sediment
 Magna Metals Site
 Page 1 of 2

Sample ID	SD-1	SD-1 DUP	SD-2	SD-3	SD-4	SD-5	SD-6
Laboratory ID	1121014	1144012	1121006	1121015	1144002	1144004	1144006
Date Sampled	05/12/97	05/12/97	05/12/97	05/12/97	05/14/97	05/14/97	05/14/97
Total Organic Carbon	38100	> 160000 J	93200	169000 J	>160000 J	88800 J	1100000 J

See appendix introduction for abbreviations and data qualifiers.
 Sediment results are presented in mg/kg (ppm).

TABLE C-16
Total Organic Carbon - Sediment
Magna Metals Site
Page 2 of 2

Sample ID	SD-7	SD-8	SD-9	SD-10	SD-11	SD-12
Laboratory ID	1144008	1121012	1121013	1121002	1121004	1144010
Date Sampled	05/14/97	05/12/97	05/12/97	05/12/97	05/12/97	05/14/97
Total Organic Carbon	84800 J	32400	160000 J	2510	8300	2590

See appendix introduction for abbreviations and data qualifiers.
Sediment results are presented in mg/kg (ppm).

TABLE C-17
TCL Volatile Organic Compounds - Surface Soils
Magna Metals Site
Page 2 of 2

Sample ID	NYSDEC Recommended Soil Clean-up Objectives	SS-01	SS-01DUP	SS-02	SS-03	SS-04	SS-05
Laboratory ID Depth Date Sampled		71589001 6"-12" 04/11/97	71589002 06"-12" 04/11/97	71589003 06"-12" 04/11/97	71589004 06"-12" 04/11/97	71589008 06"-12" 04/11/97	71589009 06"-12" 04/11/97
1,1,2,2-Tetrachloroethane	600	12 U	12 U	11 U	12 U	12 U	11 U
Toluene	1,500	12 U	12 U	11 U	12 U	12 U	11 U
Chlorobenzene	1,700	12 U	12 U	11 U	12 U	•	11 U
Ethylbenzene	5,500	12 U	12 U	11 U	12 U	12 U	11 U
Styrene	NA	12 U	12 U	11 U	12 U	12 U	11 U
Xylene (total)	1,200	12 U	12 U	11 U	12 U	12 U	11 U

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in ug/kg (ppb).

TABLE C-18
TCL Semi-Volatile Organic Compounds - Surface Soils
Magna Metals Site
Page 3 of 3

Sample ID	NYSDEC Recommended Soil Clean-up Objectives	SS-01	SS-01DUP	SS-02	SS-03	SS-04	SS-05
Laboratory ID	970835A-01 00"-12" 04/11/97	970835A-02 00"-12" 04/11/97	970835A-03 00"-12" 04/11/97	970835A-04 00"-12" 04/11/97	970835A-06 00"-12" 04/11/97	970835A-06 00"-12" 04/11/97	970835A-07 00"-12" 04/11/97
Depth							
Date Sampled							
Benzo(a)anthracene	224	770 U	770 U	390 U	23 J	13 J	39 J
Chrysene	400	770 U	770 U	390 U	28 J	19 J	62 J
bis(2-Ethylhexyl)phthalate	50,000	4900 B	4300 B	780 B	390 U	420 U	390 U
Di-n-octylphthalate	50,000	770 U	770 U	390 U	390 U	420 U	390 U
Benzo(b)fluoranthene	1,100	770 U	770 U	390 U	21 J	420 U	49 J
Benzo(k)fluoranthene	1,100	770 U	770 U	390 U	26 J	420 U	48 J
Benzo(a)pyrene	61	97 J	770 U	390 U	20 J	420 U	29 J
Indeno(1,2,3-cd)pyrene	3,200	81 J	770 U	390 U	22 J	420 U	41 J
Dibenz(a,h)anthracene	14	770 U	770 U	390 U	390 U	420 U	390 U
Benzo(g,h,i)perylene	50,000	770 U	770 U	390 U	46 J	420 U	390 U
Semi-Volatile TICs	NA	11260 JN	9860 JN	8550 JN	28330 JN	15990 JN	14090 JN

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in ug/kg (ppb).

TABLE C-19
TCL Pesticide/PCB Compounds - Surface Soils
Magna Metals Site
Page 1 of 1

Sample ID	NYSDEC Recommended Soil Clean-up Objectives	SS-01	SS-01DUP	SS-02	SS-03	SS-04 Background	SS-05 Background
Laboratory ID Depth Date Sampled		71589001 00"-12" 04/11/97	71589002 00"-12" 04/10/97	71589003 00"-12" 04/10/97	71589004 00"-12" 04/10/97	71589008 00"-12" 04/10/97	71589009 00"-12" 04/11/97
alpha-BHC	110	2 U	2 U	2 U	2 U	2.1 U	2 U
beta-BHC	200	2 U	2 U	2 U	2 U	2.1 U	2 U
delta-BHC	300	2 U	2 U	2 U	2 U	2.1 U	2 U
gamma-BHC (Lindane)	60	2 U	2 U	2 U	2 U	2.1 U	2 U
Heptachlor	100	2 U	2 U	2 U	2 U	2.1 U	2 U
Aldrin	41	2 U	2 U	2 U	2 U	2.1 U	2 U
Heptachlor epoxide	20	2 U	2 U	2 U	2 U	2.1 U	2 U
Endosulfan I	900	2 U	2 U	2 U	2 U	2.1 U	2 U
Dieldrin	44	3.8 U	3.8 U	3.9 U	3.9 U	4 U	3.8 U
4,4'-DDE	2,100	7.4 JP	10	6.5	5.3	8	3.8 U
Endrin	100	3.8 U	3.8 U	3.9 U	3.9 U	4 U	3.8 U
Endosulfan II	900	3.8 U	3.8 U	3.9 U	3.9 U	4 U	3.8 U
4,4'-DDD	2,900	3.8 U	3.8 U	7.1 JPN	3.9 U	4 U	3.8 U
Endosulfan sulfate	1,000	3.8 U	3.8 U	3.9 U	3.9 U	4 U	3.8 U
4,4'-DDT	2,100	6.6 JPN	5 JP	6.2 JPN	6.2	8.9	4.3
Methoxychlor	NA	20 U	20 U	20 U	20 U	21 U	20 U
Endrin ketone	NA	3.8 U	3.8 U	3.9 U	3.9 U	4 U	3.8 U
Endrin aldehyde	NA	3.8 U	3.8 U	3.9 U	3.9 U	4 U	3.8 U
alpha-Chlordane	NA	2 U	2 U	2 U	2 U	2.1 U	2 U
gamma-Chlordane	540	2 U	2 U	2 U	2 U	2.1 U	2 U
Toxaphene	NA	200 U	200 U	200 U	200 U	210 U	200 U
Aroclor-1016	1,000	38 U	38 U	39 U	39 U	40 U	38 U
Aroclor-1221	1,000	78 U	78 U	79 U	79 U	82 U	77 U
Aroclor-1232	1,000	38 U	38 U	39 U	39 U	40 U	38 U
Aroclor-1242	1,000	38 U	38 U	39 U	39 U	40 U	38 U
Aroclor-1248	1,000	38 U	38 U	39 U	39 U	40 U	38 U
Aroclor-1254	1,000	56 J	62 J	46 JP	39 U	40 U	38 U
Aroclor-1260	1,000	46 J	38 J	46 JP	39 U	40 U	38 U

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in ug/kg (ppb).

TABLE C-21
Total Organic Carbon - Surface Soils
Magna Metals Site
Page 1 of 1

Sample ID	SS-02
Laboratory ID	2897002
Depth	00"-12"
Date Sampled	11/17/97
Total Organic Carbon	8760

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in mg/kg (ppm).

TABLE C-22
TCL Volatile Organic Compounds - Subsurface Soils
Magna Metals Site
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Sample ID	NYSDEC Recommended Soil Clean-up Objectives	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6
Laboratory ID Depth Date Sampled		65807002 04'-06' 12/10/96	65807003 08'-09.5' 12/10/96	65807004 08'-09.5' 12/10/96	65807005 07'-08.5' 12/10/96	65807007 04.5'-06.5' 12/11/96	65807008 07'-10' 12/11/96
Tetrachloroethene	1,400	12 U	11 U	11 U	11 U	11 U	11 U
1,1,2,2-Tetrachloroethane	600	12 U	11 U	11 U	11 U	11 U	11 U
Toluene	1,500	12 U	11 U	11 U	11 U	11 U	11 U
Chlorobenzene	1,700	12 U	11 U	11 U	11 U	11 U	11 U
Ethylbenzene	5,500	12 U	11 U	11 U	11 U	11 U	11 U
Styrene	NA	12 U	11 U	11 U	11 U	11 U	11 U
Xylene (total)	1,200	12 U	11 U	11 U	11 U	11 U	11 U
Volatile TICs	NA	31 JN	29 JN	42 JN	200 JN	21 JN	30 JN

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in ug/kg (ppb).

TABLE C-22
TCL Volatile Organic Compounds - Subsurface Soils
Magna Metals Site
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Sample ID	NYSDEC Recommended Soil Clean-up Objectives	SB-7	SB-7DUP	MW-01 Background 75528009 06'-08' 12/11/96	MW-01 Background 75528010 12'-14' 11/19/97	MW-02 Background 75528006 06'-08' 11/18/97	MW-02DUP 75528007 06'-08' 11/18/97
Laboratory ID							
Depth							
Date Sampled							
Tetrachloroethene	1,400	11 U	11 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	600	11 U	11 U	10 U	10 U	10 U	10 U
Toluene	1,500	11 U	11 U	10 U	10 U	10 U	10 U
Chlorobenzene	1,700	11 U	11 U	10 U	10 U	10 U	10 U
Ethylbenzene	5,500	11 U	11 U	10 U	10 U	10 U	10 U
Styrene	NA	11 U	11 U	10 U	10 U	10 U	10 U
Xylene (total)	1,200	11 U	11 U	10 U	10 U	10 U	10 U
Volatile TICs	NA	56 JN	50 JN	--	--	--	--

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in ug/kg (ppb).

TABLE C-22
TCL Volatile Organic Compounds - Subsurface Soils
Magna Metals Site
Page 5 of 6

Sample ID	NYSDEC Recommended Soil Clean-up Objectives	MW-02	MW-03	MW-04	MW-04
Laboratory ID Depth	Date Sampled	75528008 12'-14' 11/18/97	75528001 06'-08' 11/17/97	75528003 06'-08' 11/18/97	75528004 12'-14' 11/18/97
Chloromethane	NA	10 U	10 U	10 U	10 U
Bromomethane	NA	10 U	10 U	10 U	10 U
Vinyl Chloride	200	10 U	10 U	10 U	10 U
Chloroethane	1,900	10 U	10 U	10 U	10 U
Methylene Chloride	100	4 JB	4 JB	4 JB	4 JB
Acetone	200	5 JB	6 JB	5 JB	7 JB
Carbon Disulfide	2,700	10 U	10 U	10 U	10 U
1,1-Dichloroethene	400	10 U	10 U	10 U	10 U
1,1-Dichloroethane	200	10 U	10 U	10 U	10 U
1,2-Dichloroethene (total)	300	10 U	10 U	10 U	10 U
Chloroform	300	10 U	10 U	10 U	10 U
1,2-Dichloroethane	100	10 U	10 U	10 U	10 U
2-Butanone	300	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	800	10 U	10 U	10 U	10 U
Carbon Tetrachloride	600	10 U	10 U	10 U	10 U
Bromodichloromethane	NA	10 U	10 U	10 U	10 U
1,2-Dichloropropane	NA	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	300	10 U	10 U	10 U	10 U
Trichloroethene	700	10 U	10 U	4 J	10 U
Dibromochloromethane	NA	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	NA	10 U	10 U	10 U	10 U
Benzene	60	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	300	10 U	10 U	10 U	10 U
Bromoform	NA	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	1,000	10 U	10 U	10 U	10 U
2-Hexanone	NA	10 U	10 U	10 U	10 U

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in ug/kg (ppb).

TABLE C-22
TCL Volatile Organic Compounds - Subsurface Soils
Magna Metals Site
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Sample ID	NYSSDEC Recommended Soil Clean-up Depth Objectives	MW-02	MW-03	MW-04	MW-04
Laboratory ID		75528008 12'-14' 11/18/97	75528001 06'-08' 11/17/97	75528003 06'-08' 11/18/97	75528004 12'-14' 11/18/97
Date Sampled					
Tetrachloroethene	1,400	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	600	10 U	10 U	10 U	10 U
Toluene	1,500	10 U	10 U	10 U	10 U
Chlorobenzene	1,700	10 U	10 U	10 U	10 U
Ethylbenzene	5,500	10 U	10 U	10 U	10 U
Styrene	NA	10 U	10 U	10 U	10 U
Xylene (total)	1,200	10 U	10 U	10 U	10 U
Volatile TICs	NA	--	--	--	--

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in ug/kg (ppb).

TABLE C-23
TCL Semi-Volatile Organic Compounds - Subsurface Soils
Magna Metals Site
Page 1 of 9

Sample ID	NYSDEC Recommended Soil Clean-up Objectives	SB-1 962803A-01 04'-06' 12/10/96	SB-2 962803A-02 08'-09.5' 12/10/96	SB-3 962803A-03 08'-09.5' 12/10/96	SB-4 962803A-04 06.5'-08.5' 12/10/96	SB-5 962803A-05 04.5'-06.5' 12/11/96	SB-6 962803A-06 07'-10' 12/11/96
Phenol	30	380 U NA	380 U 380 U	370 U 370 U	370 U 370 U	370 U 370 U	360 U 360 U
bis(2-Chloroethyl) ether	800	380 U 1,600	380 U 380 U	370 U 370 U	370 U 370 U	370 U 370 U	390 U 390 U
2-Chlorophenol	8,500	380 U 7,900	380 U 380 U	370 U 370 U	370 U 370 U	360 U 360 U	390 U 390 U
1,3-Dichlorobenzene	100	NA	380 U 380 U	370 U 370 U	370 U 370 U	360 U 360 U	390 U 390 U
1,4-Dichlorobenzene	2-Methylphenol	900	NA	380 U 380 U	370 U 370 U	360 U 360 U	390 U 390 U
1,2-Dichlorobenzene	2,2'-oxybis(1-Chloropropane)	NA	NA	380 U 380 U	370 U 370 U	360 U 360 U	390 U 390 U
2-Methylphenol	4-Methylphenol	200	NA	380 U 380 U	370 U 370 U	360 U 360 U	390 U 390 U
N-Nitroso-di-n-propylamine	N-Hexachloroethane	4,400	NA	380 U 380 U	370 U 370 U	360 U 360 U	390 U 390 U
Nitrobenzene	Isophorone	330	NA	380 U 380 U	370 U 370 U	360 U 360 U	390 U 390 U
2-Nitrophenol	2,4-Dimethylphenol	400	NA	380 U 380 U	370 U 370 U	360 U 360 U	390 U 390 U
2,4-Dimethoxyphenol	bis (2-Chloroethoxy) methane	400	NA	380 U 380 U	370 U 370 U	360 U 360 U	390 U 390 U
2,4-Dichlorophenol	1,2,4-Trichlorobenzene	NA	NA	380 U 380 U	370 U 370 U	360 U 360 U	390 U 390 U
Naphthalene	4-Chloroaniline	13,000	220	380 U 380 U	370 U 370 U	360 U 360 U	390 U 390 U
4-Chlorobutadiene	4-Chloro-3-methylphenol	NA	NA	380 U 380 U	370 U 370 U	360 U 360 U	390 U 390 U
2-Methylnaphthalene	36,400	240	NA	380 U 380 U	370 U 370 U	360 U 360 U	390 U 390 U
Hexachlorocyclopentadiene	2,4,6-Trichlorophenol	NA	NA	380 U 380 U	370 U 370 U	360 U 360 U	390 U 390 U
2,4,5-Trichlorophenol	100	960 U	920 U	920 U	930 U	910 U	980 U

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in ug/kg (ppb).

TABLE C-23
TCL Semi-Volatile Organic Compounds - Subsurface Soils
Magna Metals Site
Page 3 of 9

Sample ID	NYSDDEC Recommended Soil Clean-up Depth Objectives	SB-1 962803A-01 04'-06' 12/10/96	SB-2 962803A-02 08'-09.5' 12/10/96	SB-3 962803A-03 08'-09.5' 12/10/96	SB-4 962803A-04 06.5'-08.5' 12/10/96	SB-5 962803A-05 04.5'-06.5' 12/11/96	SB-6 962803A-06 07'-10' 12/11/96
Butylbenzylphthalate	50,000	380 U	370 U	13 J	43 J	360 U	390 U
3,3'-Dichlorobenzidine	NA	380 U	370 U	370 U	370 U	360 U	390 U
Benzof(a)anthracene	224	380 U	370 U	370 U	370 U	360 U	390 U
Chrysene	400	380 U	370 U	370 U	370 U	360 U	390 U
bis(2-Ethylhexyl)phthalate	50,000	380 U	370 U	370 U	370 U	360 U	390 U
Di-n-octylphthalate	50,000	380 U	370 U	370 U	370 U	360 U	390 U
Benzo(b)fluoranthene	1,100	380 U	370 U	370 U	370 U	360 U	390 U
Benzo(k)fluoranthene	1,100	380 U	370 U	370 U	370 U	360 U	390 U
Benzo(a)pyrene	61	380 U	370 U	370 U	370 U	360 U	390 U
Indeno(1,2,3-cd)pyrene	3,200	380 U	370 U	370 U	370 U	360 U	390 U
Dibenz(a,h)anthracene	14	380 U	370 U	370 U	370 U	360 U	390 U
Benzo(g,h,i)perylene	50,000	380 U	370 U	370 U	370 U	360 U	390 U

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in ug/kg (ppb).

TABLE C-23
TCL Semi-Volatile Organic Compounds - Subsurface Soils
Magna Metals Site
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Sample ID	NYSDEC Recommended Soil Clean-up Objectives	SB-7	SB-7DUP	MW-01 Background 972897A-09 06'-08' 11/19/97	MW-02 Background 972897A-05 06'-08' 11/18/97	MW-02DUP 972897A-06 06'-08' 11/18/97
Laboratory ID Depth Date Sampled						
2-Chloronaphthalene	NA	370 U	380 U	370 U	350 U	360 U
2-Nitroaniline	430	920 U	940 U	920 U	890 U	900 U
Dimethylphthalate	2,000	370 U	380 U	370 U	350 U	360 U
Acenaphthylene	41,000	370 U	380 U	370 U	350 U	360 U
2,6-Dinitrotoluene	1,000	370 U	380 U	370 U	350 U	360 U
3-Nitroaniline	500	920 U	940 U	920 U	910 U	890 U
Acenaphthene	50,000	370 U	380 U	370 U	350 U	360 U
2,4-Dinitrophenol	200	920 U	940 U	920 U	910 U	890 U
4-Nitrophenol	100	920 U	940 U	920 U	910 U	890 U
Dibenzofuran	6,200	370 U	380 U	370 U	350 U	360 U
2,4-Dinitrotoluene	NA	370 U	380 U	370 U	350 U	360 U
Diethylphthalate	7,100	370 U	380 U	370 U	360 U	360 U
4-Chlorophenyl-phenylether	NA	370 U	380 U	370 U	350 U	360 U
Fluorene	50,000	370 U	380 U	370 U	350 U	360 U
4-Nitroaniline	NA	920 U	940 U	920 U	910 U	890 U
4,6-Dinitro-2-methylphenol	NA	920 U	940 U	920 U	910 U	890 U
N-Nitrosodiphenylamine	NA	370 U	380 U	370 U	360 U	360 U
4-Bromophenyl-phenylether	NA	370 U	380 U	370 U	350 U	360 U
Hexachlorobenzene	410	370 U	380 U	370 U	360 U	360 U
Pentachlorophenol	1,000	920 U	940 U	920 U	910 U	890 U
Phenanthrene	50,000	370 U	380 U	370 U	360 U	360 U
Anthracene	50,000	370 U	380 U	370 U	360 U	360 U
Carbazole	NA	370 U	380 U	370 U	350 U	360 U
Di-n-butylphthalate	8,100	370 U	380 U	31 JB	22 JB	42 JB
Fluoranthene	50,000	370 U	380 U	370 U	360 U	360 U
Pyrene	50,000	370 U	380 U	370 U	360 U	360 U

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in ug/kg (ppb).

TABLE C-23
TCL Semi-Volatile Organic Compounds - Subsurface Soils
Magna Metals Site
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Sample ID	NYSDDEC Recommended Soil Clean-up Objectives	SB-7	SB-7DUP	MW-01 Background 972897A-08 06'-08' 12'-14' 11/19/97	MW-02 Background 972897A-05 06'-08' 11/18/97	MW-02DUP 972897A-06 06'-08' 11/18/97
Laboratory ID		962803A-07 03.5'-05.5' 12/11/96	962803A-08 03.5'-05.5' 12/11/96			
Depth						
Date Sampled						
Butylbenzylphthalate	50,000	370 U	380 U	370 U	360 U	350 U
3,3'-Dichlorobenzidine	NA	370 U	380 U	370 U	360 U	350 U
Benzo(a)anthracene	224	370 U	380 U	370 U	360 U	350 U
Chrysene	400	370 U	380 U	370 U	360 U	350 U
bis(2-Ethylhexyl)phthalate	50,000	370 U	380 U	370 U	43 JB	31 JB
Di-n-octylphthalate	50,000	370 U	380 U	370 U	360 U	350 U
Benzo(b)fluoranthene	1,100	370 U	380 U	370 U	360 U	350 U
Benzo(k)fluoranthene	1,100	370 U	380 U	370 U	360 U	350 U
Benzo(a)pyrene	61	370 U	380 U	370 U	360 U	350 U
Indeno(1,2,3-cd)pyrene	3,200	370 U	380 U	370 U	360 U	350 U
Dibenz(a,h)anthracene	14	370 U	380 U	370 U	360 U	350 U
Benzo(g,h,i)perylene	50,000	370 U	380 U	370 U	360 U	350 U

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in ug/kg (ppb).

TABLE C-23
TCL Semi-Volatile Organic Compounds - Subsurface Soils
Magna Metals Site
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Sample ID Laboratory ID Depth Date Sampled	NYSDEC Recommended Soil Clean-up Objectives	MW-02 972897A-07 12'-14' 11/18/97	MW-03 972897A-01 06'-08' 11/17/97	MW-04 972897A-03 06'-08' 11/18/97	MW-04 972897A-04 12'-14' 11/18/97
Phenol	30	350 U	350 U	370 U	350 U
bis(2-Chloroethyl) ether	NA	350 U	350 U	370 U	350 U
2-Chlorophenol	800	350 U	350 U	370 U	350 U
1,3-Dichlorobenzene	1,600	350 U	350 U	370 U	350 U
1,4-Dichlorobenzene	8,500	350 U	350 U	370 U	350 U
1,2-Dichlorobenzene	7,900	350 U	350 U	370 U	350 U
2-Methylphenol	100	350 U	350 U	370 U	350 U
2,2'-oxybis(1-Chloropropane)	NA	350 U	350 U	370 U	350 U
4-Methylphenol	900	350 U	350 U	370 U	350 U
N-Nitroso-di-n-propylamine	NA	350 U	350 U	370 U	350 U
Hexachloroethane	NA	350 U	350 U	370 U	350 U
Nitrobenzene	200	350 U	350 U	370 U	350 U
Isophorone	4,400	350 U	350 U	370 U	350 U
2-Nitrophenol	330	350 U	350 U	370 U	350 U
2,4-Dimethylphenol	400	350 U	350 U	370 U	350 U
bis (2-Chloroethoxy) methane	NA	350 U	350 U	370 U	350 U
2,4-Dichlorophenol	400	350 U	350 U	370 U	350 U
1,2,4-Trichlorobenzene	NA	350 U	350 U	370 U	350 U
Naphthalene	13,000	350 U	350 U	370 U	350 U
4-Chloroaniline	220	350 U	350 U	370 U	350 U
Hexachlorobutadiene	NA	350 U	350 U	370 U	350 U
4-Chloro-3-methylphenol	240	350 U	350 U	370 U	350 U
2-Methylnaphthalene	36,400	350 U	350 U	370 U	350 U
Hexachlorocyclopentadiene	NA	350 U	350 U	370 U	350 U
2,4,6-Trichlorophenol	NA	350 U	350 U	370 U	350 U
2,4,5-Trichlorophenol	100	890 U	880 U	920 U	870 U

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in ug/kg (ppb).

TABLE C-23
TCL Semi-Volatile Organic Compounds - Subsurface Soils
Magna Metals Site
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Sample ID	NYSDDEC Recommended Soil Clean-up Objectives	MW-02	MW-03	MW-04	MW-04
Laboratory ID Depth	Date Sampled	972897A-07 12'-14' 11/18/97	972897A-01 06'-08' 11/17/97	972897A-03 06'-08' 11/18/97	972897A-04 12'-14' 11/18/97
2-Chloronaphthalene	NA	350 U	350 U	370 U	350 U
2-Nitroaniline	430	890 U	880 U	920 U	870 U
Dimethylphthalate	2,000	350 U	350 U	370 U	350 U
Acenaphthylene	41,000	350 U	350 U	370 U	350 U
2,6-Dinitrotoluene	1,000	350 U	350 U	370 U	350 U
3-Nitroaniline	500	890 U	880 U	920 U	870 U
Acenaphthene	50,000	350 U	350 U	370 U	350 U
2,4-Dinitrophenol	200	890 U	880 U	920 U	870 U
4-Nitrophenol	100	890 U	880 U	920 U	870 U
Dibenzofuran	6,200	350 U	350 U	370 U	350 U
2,4-Dinitrotoluene	NA	350 U	350 U	370 U	350 U
Diethylphthalate	7,100	350 U	350 U	370 U	350 U
4-Chlorophenyl-phenylether	NA	350 U	350 U	370 U	350 U
Fluorene	50,000	350 U	350 U	370 U	350 U
4-Nitroaniline	NA	890 U	880 U	920 U	870 U
4,6-Dinitro-2-methylphenol	NA	890 U	880 U	920 U	870 U
N-Nitrosodiphenylamine	NA	350 U	350 U	370 U	350 U
4-Bromophenyl-phenylether	NA	350 U	350 U	370 U	350 U
Hexachlorobenzene	410	350 U	350 U	370 U	350 U
Pentachlorophenol	1,000	890 U	880 U	920 U	870 U
Phenanthrene	50,000	350 U	350 U	370 U	350 U
Anthracene	50,000	350 U	350 U	370 U	350 U
Carbazole	NA	350 U	350 U	370 U	350 U
Di-n-butylphthalate	8,100	41 JB	12 JB	25 JB	14 JB
Fluoranthene	50,000	350 U	350 U	370 U	350 U
Pyrene	50,000	350 U	350 U	370 U	350 U

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in ug/kg (ppb).

TABLE C-23
TCL Semi-Volatile Organic Compounds - Subsurface Soils
Magna Metals Site
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Sample ID	NYSDEC Recommended Soil Clean-up Objectives	MW-02	MW-03	MW-04	MW-04
Laboratory ID	Depth	972897A-07 12'-14' 11/18/97	972897A-01 06-08' 11/17/97	972897A-03 06-08' 11/18/97	972897A-04 12-14' 11/18/97
Butylbenzylphthalate	50,000	350 U	350 U	370 U	350 U
3,3'-Dichlorobenzidine	NA	350 U	350 U	370 U	350 U
Benzo(a)anthracene	224	350 U	350 U	370 U	350 U
Chrysene	400	350 U	350 U	370 U	350 U
bis(2-Ethylhexyl)phthalate	50,000	56 JB	17 JB	100 JB	12 JB
Di-n-octylphthalate	50,000	350 U	350 U	370 U	350 U
Benzo(b)fluoranthene	1,100	350 U	350 U	370 U	350 U
Benzo(k)fluoranthene	1,100	350 U	350 U	370 U	350 U
Benzo(a)pyrene	61	350 U	350 U	18 J	350 U
Indeno(1,2,3-cd)pyrene	3,200	350 U	350 U	370 U	350 U
Dibenz(a,h)anthracene	14	350 U	350 U	370 U	350 U
Benzo(g,h,i)perylene	50,000	350 U	350 U	160 J	350 U

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in ug/kg (ppb).

TABLE C-24
TCL Pesticide/PCB Compounds - Subsurface Soils
Magna Metals Site

Page 1 of 2

Sample ID	NYSDDEC Recommended Soil Clean-up Objectives	SB-1 65807002 04'-06' 12/10/96	SB-2 65807003 08'-09' 12/10/96	SB-3 65807004 08'-09' 12/10/96	SB-4 65807005 06.5'-08.5' 12/10/96	SB-5 65807007 04.5'-06.5' 12/11/96	SB-6 65807008 07'-10' 12/11/96
alpha-BHC	110	2 UJ	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ
beta-BHC	200	2 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
delta-BHC	300	2 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
gamma-BHC (Lindane)	60	2 UJ	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ
Heptachlor	100	2 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Aldrin	41	2 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Heptachlor epoxide	20	2 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Endosulfan I	900	2 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Dieldrin	44	3.9 U	3.7 U	3.7 U	3.7 U	3.6 U	3.8 U
4,4'-DDE	2,100	3.9 U	3.7 U	3.7 U	3.7 U	3.6 U	3.8 U
Endrin	100	3.9 U	3.7 U	3.7 U	3.7 U	3.6 U	3.8 U
Endosulfan II	900	3.9 U	3.7 U	3.7 U	3.7 U	3.6 U	3.8 U
4,4'-DDD	2,900	3.9 U	3.7 U	3.7 U	3.7 U	3.6 U	3.8 U
Endosulfan sulfate	1,000	3.9 U	3.7 U	3.7 U	3.7 U	3.6 U	3.8 U
4,4'-DDT	2,100	3.9 U	3.7 U	3.7 U	3.7 U	3.6 U	3.8 U
Methoxychlor	NA	20 U	19 U	19 U	19 U	19 U	19 U
Endrin ketone	NA	3.9 U	3.7 U	3.7 U	3.7 U	3.6 U	3.8 U
Endrin aldehyde	NA	3.9 U	3.7 U	3.7 U	3.7 U	3.6 U	3.8 U
alpha-Chlordane	NA	2 U	1.9 U	1.9 U	2 JPN	1.9 U	1.9 U
gamma-Chlordane	540	2 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Toxaphene	NA	200 U	190 U	190 U	190 U	190 U	190 U
Aroclor-1016	10,000	39 U	37 U	37 U	37 U	36 U	38 U
Aroclor-1221	10,000	80 U	74 U	74 U	74 U	74 U	76 U
Aroclor-1232	10,000	39 U	37 U	37 U	37 U	36 U	38 U
Aroclor-1242	10,000	39 U	37 U	37 U	37 U	36 U	38 U
Aroclor-1248	10,000	39 U	37 U	37 U	37 U	36 U	38 U
Aroclor-1254	10,000	39 U	37 U	24 JP	160 JP	36 U	38 U
Aroclor-1260	10,000	39 U	37 U	37 U	37 U	36 U	38 U

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in ug/kg (ppb).

TABLE C-24
TCL Pesticide/PCB Compounds - Subsurface Soils
Magna Metals Site
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Sample ID	NYSDEC Recommended Soil Clean-up Objectives	SB-7	SB-7DUP	MW-04
Laboratory ID				
Depth				
Date Sampled				
alpha-BHC	110	1.9 UJ	1.9 UJ	0.05 JP
beta-BHC	200	1.9 U	1.9 U	0.86 U
delta-BHC	300	1.9 U	1.9 U	0.86 U
gamma-a-BHC (Lindane)	60	1.9 UJ	1.9 UJ	0.86 U
Heptachlor	100	1.9 U	1.9 U	0.19 JP
Aldrin	41	1.9 U	1.9 U	0.86 U
Hepachlor epoxide	20	1.9 U	1.9 U	0.86 U
Endosulfan I	900	1.9 U	1.9 U	0.32 JP
Dieldrin	44	3.8 U	3.8 U	0.28 JP
4,4'-DDE	2,100	3.8 U	3.8 U	1.7 U
Endrin	100	3.8 U	3.8 U	1.7 U
Endosulfan II	900	3.8 U	3.8 U	0.15 JP
4,4'-DDD	2,900	3.8 U	3.8 U	0.98 JP
Endosulfan sulfate	1,000	3.8 U	3.8 U	1.7 U
4,4'-DDT	2,100	3.8 U	3.8 U	0.92 JP
Methoxychlor	NA	19 U	19 U	8.6 U
Endrin ketone	NA	3.8 U	3.8 U	1.7 U
Endrin aldehyde	NA	3.8 U	3.8 U	1.7 U
alpha-Chlordane	NA	1.9 U	1.9 U	0.27 JP
gamma-Chlordane	540	1.9 U	1.9 U	0.86 U
Toxaphene	NA	190 U	190 U	86 U
Aroclor-1016	10,000	38 U	38 U	17 U
Aroclor-1221	10,000	76 U	76 U	34 U
Aroclor-1232	10,000	38 U	38 U	17 U
Aroclor-1242	10,000	38 U	38 U	17 U
Aroclor-1248	10,000	38 U	38 U	17 U
Aroclor-1254	10,000	280 JP	240 JP	17 U
Aroclor-1260	10,000	38 U	38 U	17 U

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in ug/kg (ppb).

TABLE C-25
TAL Metals and Cyanide - Subsurface Soils
Magna Metals Site
Page 2 of 3

Sample ID	NYSDEC Recommended Soil Clean-up Objectives	Most Stringent of Soil Clean-up Objective or Maximum	SB-7	SB-7DUP	MW-01	MW-02	MW-02DUP
Laboratory ID	Depth	Date Sampled	Site Background	Background	Background	Background	Background
Aluminum	SB	5,040	21295	18074	2260	5040	3190
Antimony	SB	ND	1.2 UJ	1.1 UJ	1.8 U	1.7 U	3540
Arsenic	7.5 or SB	7.5	3.8	3.5	0.66 U	1.6 B	1.7 U
Barium	300 or SB	300	721	484	74	81.9	0.87 B
Beryllium	0.16 or SB	0.32	0.24 B	0.23 B	0.24 B	0.32 B	19.7 B
Cadmium	1 or SB	1	0.19 U	0.18 U	0.22 U	0.22 U	0.22 U
Calcium	SB	1,690	5124.1	4792.8	1690	1560	664 B
Chromium	10 or SB	10	5.9	5.7	2.2 B	6.8	771 B
Cobalt	30 or SB	30	24.3 J	18 J	3.2 B	4.6 B	3.1
Copper	25 or SB	25	87.2	71.2	13.7	20.6	2.5 B
Iron	2,000 or SB	10,000	24435	18931	4350	45.9	2.7 B
Lead	SB	3.7	4.3	5	2.2	3.7	42.8
Magnesium	SB	2,100	11389	8583.6	1030 B	2100	5040
Manganese	SB	250	179 J	160 J	171	250	3880
Mercury	0.1	0.1	0.1 U	0.079 U	0.11 U	0.11 U	2.9
Nickel	13 or SB	15.2	15.5 J	11.9 J	6.7 B	15.2	2.8
Potassium	SB	864	6993.6 J	4652.7 J	487 B	864 B	994 B
Selenium	2 or SB	2	0.97 U	0.93 U	0.89 U	0.9 B	121
Silver	SB	ND	0.19 UJ	0.18 UJ	0.22 U	0.22 U	122
Sodium	SB	86.8	481 B	485 B	50 B	86.8 B	10.4
Thallium	SB	ND	1.6 UJ	1.5 UJ	1.1 U	86.8 B	10.5
Vanadium	150 or SB	150	69	52.4	7.2 B	11.6	267 B
Zinc	20 or SB	23.3	302	282	11.2	23.3	341 B
Cyanide	NA	NA	6.6	5.12	0.55 U	0.55 U	52.8 B
							0.99 B
							1.1 U
							5 B
							13.2
							0.22 U
							0.22 U
							4.5 B
							1.1 U
							5 B
							13.2
							0.55 U
							0.55 U

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in mg/kg (ppm).

TABLE C-25
TAL Metals and Cyanide - Subsurface Soils
Magna Metals Site
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Sample ID	NYSDEC Recommended Soil Depth	Most Stringent of Soil Clean-up Objectives	MW-02	MW-03	MW-04	MW-04
Laboratory ID	Date Sampled		972897A-07 12'-14' 11/18/97	972897A-01 06'-08' 11/18/97	972897A-03 06'-08' 11/18/97	972897A-04 12'-14' 11/18/97
Aluminum	SB	5,040	3500	3230	7500	8480
Antimony	SB	ND	1.7 U	1.7 U	1.8 U	1.7 U
Arsenic	7.5 or SB	7.5	18.5	9.5	2 B	20.4
Barium	300 or SB	300	54.4	22.6 B	39.3 B	434
Beryllium	0.16 or SB	0.32	0.21 U	0.25 B	0.36 B	0.4 B
Cadmium	1 or SB	1	0.21 U	0.21 U	0.22 U	0.21 U
Calcium	SB	1,690	1850	927 B	1310	5110
Chromium	10 or SB	10	61.1	4.3	9.4	13.3
Cobalt	30 or SB	30	20.8	2.3 B	5.6 B	10.1 B
Copper	25 or SB	25	114	695	23.2	19.4
Iron	2,000 or SB	10,000	10800	4960	11400	13400
Lead	SB	3.7	1.1	2.7	5.2	2
Magnesium	SB	2,100	5480	970 B	2150	5230
Manganese	SB	250	304	146	177	162
Mercury	0.1	0.1	0.2	0.11 U	0.11 U	0.1 U
Nickel	13 or SB	15.2	39	28.4	11.3	7.4 B
Potassium	SB	864	300 B	358 B	548 B	3190
Selenium	2 or SB	2	1.9	6.7	1.8	8.6
Silver	SB	ND	0.21 U	0.21 U	0.22 U	0.21 U
Sodium	SB	86.8	196 B	62.5 B	115 B	548 B
Thallium	SB	ND	1.1 U	1.1 U	1.1 U	1 U
Vanadium	150 or SB	150	18.4	5.2 B	16.6	27.3
Zinc	20 or SB	23.3	32.4	37.7	39.3	34.3
Cyanide	NA	NA	7.24	19.9	0.6	2.34

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in mg/kg (ppm).

TABLE C-26
Total Organic Carbon - Subsurface Soils
Magna Metals Site
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Sample ID	MW-01 Background	MW-02	MW-03	MW-04
Laboratory ID	972897A-09	972897A-07	972897A-01	972897A-04
Depth	12'-14'	12'-14'	06'-08'	12'-14'
Date Sampled	11/19/97	11/18/97	11/17/97	11/18/97
Total Organic Carbon	1050	1180	1360	806

See appendix introduction for abbreviations and data qualifiers.
Soil results are presented in mg/kg (ppm).

TABLE C-27
TCL Volatile Organic Compounds - Groundwater
Magna Metals Site
Page 1 of 2

Sample ID	NYSDC Water Quality Standards/ Guidance Values (Class GA)	GW-01 Background 82228003 05/11/98	GW-02 82228004 05/11/98	GW-03 82228008 05/12/98	GW-04 82228009 05/12/98	GW-05 Duplicate of GW-04 82228010 05/12/98
Chloromethane	5	1 U	1 U	5 U	250 U	1 U
Bromomethane	5	1 U	1 U	5 U	250 U	1 U
Vinyl Chloride	2	1 U	1 U	5 U	250 U	1 U
Chloroethane	5	1 U	1 U	5 U	250 U	1 U
Methylene Chloride	5	2 U	2 U	10 U	500 U	1 U
Acetone	50	5 U	5 U	25 U	1200 U	2 U
Carbon Disulfide	NA	1 U	1 U	5 U	250 U	5 U
1,1-Dichloroethene	5	1 U	1 U	5 U	250 U	1 U
1,1-Dichloroethane	5	1 U	1 U	5 U	250 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	5 U	250 U	1 U
trans-1,2-Dichloroethene	5	1 U	1 U	5 U	250 U	1 U
Chloroform	7	1 U	1 U	5 U	250 U	1 U
1,2-Dichloroethane	5	1 U	1 U	5 U	250 U	1 U
2-Butanone	50	5 U	5 U	25 U	1200 U	5 U
Bromochloromethane	5	1 U	1 U	5 U	250 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	5 U	250 U	1 U
Carbon Tetrachloride	5	1 U	1 U	5 U	250 U	1 U
Bromodichloromethane	50	1 U	1 U	5 U	250 U	1 U
1,2-Dichloropropane	5	1 U	1 U	5 U	250 U	1 U
cis-1,3-Dichloropropene	5	1 U	1 U	5 U	250 U	1 U
Trichloroethene	5	1 U	3.7	68	4700	2700 D
Dibromochloromethane	50	1 U	1 U	5 U	250 U	1 U
1,1,2-Trichloroethane	5	1 U	1 U	5 U	250 U	1 U
Benzene	0.7	1 U	1 U	5 U	250 U	1 U
trans-1,3-Dichloropropene	5	1 U	1 U	5 U	250 U	1 U
Bromoform	50	1 U	1 U	5 U	250 U	1 U
4-Methyl-2-Pentanone	NA	5 U	5 U	25 U	1200 U	5 U

See appendix introduction for abbreviations and data qualifiers.
 Groundwater results are presented in ug/L (ppb).

TABLE C-27
TCL Volatile Organic Compounds - Groundwater
Magna Metals Site
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Sample ID	NYSDDEC Water Quality Standards/ Guidance Values (Class GA)	GW-01 Background 82228003 05/11/98	GW-02 82228004 05/11/98	GW-03 82228008 05/12/98	GW-04 82228009 05/12/98	GW-05 Duplicate of GW-04 82228010 05/12/98
2-Hexanone	50	5 U	5 U	25 U	1200 U	5 U
Tetrachloroethene	5	1 U	1 U	5 U	250 U	
1,1,2,2-Tetrachloroethane	5	1 U	1 U	5 U	250 U	
1,2-Dibromoethane	NA	1 U	1 U	5 U	250 U	
Toluene	5	1 U	1 U	5 U	250 U	
Chlorobenzene	5	1 U	1 U	5 U	250 U	
Ethylbenzene	5	1 U	1 U	5 U	250 U	
Styrene	5	1 U	1 U	5 U	250 U	
Xylene (total)	5	1 U	1 U	5 U	250 U	
1,3-Dichlorobenzene	5	1 U	1 U	5 U	250 U	
1,4-Dichlorobenzene	4.7	1 U	1 U	5 U	250 U	
1,2-Dichlorobenzene	4.7	1 U	1 U	5 U	250 U	
1,2-Dibromo-3-chloromethane	5	1 U	1 U	5 U	250 U	1 U

See appendix introduction for abbreviations and data qualifiers.
Groundwater results are presented in ug/L (ppb).

TABLE C-28
TCL Semi-Volatile Organic Compounds - Groundwater
Magna Metals Site
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Sample ID	NYSDEC Water Quality Standards/ Guidance Values (Class GA)	Background 981084A-01 05/11/98	GW-01 981084A-02 05/11/98	GW-02 981084A-03 05/12/98	GW-03 981084A-04 05/12/98	GW-04 981084A-05 05/12/98	GW-05 Duplicate of GW-04 981084A-05 05/12/98
2,6-Dinitrotoluene	5	5 U 20 U	5 U 20 U	5 U 20 U	5 U 20 U	5 U 20 U	5 U 20 U
3-Nitroaniline	5	5 U 20 U	5 U 20 U	5 U 20 U	5 U 20 U	5 U 20 U	5 U 20 U
Acenaphthene	20	1	20 U	20 U	20 U	20 U	5 U 20 U
2,4-Dinitrophenol	1	1	20 U	20 U	20 U	20 U	5 U 20 U
4-Nitrophenol	1	NA	5 U	5 U	5 U	5 U	5 U 20 U
Dibenzo-furan							
2,4-Dinitrotoluene	50	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
Diethylphthalate	5						
4-Chlorophenyl-phenylether	1	5 U	5 U	5 U	5 U	5 U	5 U
Fluorene	50	5 U 20 U	5 U 20 U	5 U 20 U	5 U 20 U	5 U 20 U	5 U 20 U
4-Nitroaniline	5	1	20 U				
4,6-Dinitro-2-methylphenol							
N-Nitrosodiphenylamine	50	5 U	5 U	5 U	5 U	5 U	5 U
4-Bromophenyl-phenylether	1	0.35	5 U	5 U	5 U	5 U	5 U
Hexachlorobenzene							
Pentachlorophenol	1	20 U	20 U	20 U	20 U	20 U	20 U
Phenanthrene	50	5 U	5 U	5 U	5 U	5 U	5 U
Anthracene	50	5 U	5 U	5 U	5 U	5 U	5 U
Di-n-butylphthalate	50	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	50	5 U	5 U	5 U	5 U	5 U	5 U
Pyrene	50	5 U	5 U	5 U	5 U	5 U	5 U
Butylbenzylphthalate	50	5 U	5 U	5 U	5 U	5 U	5 U
3,3'-Dichlorobenzidine	5	0.002	5 U	5 U	5 U	5 U	5 U
Benzo(a)anthracene							
Chrysene	0.002	50	5 U	5 U	5 U	5 U	5 U
bis(2-Ethylhexyl)phthalate							
Di-n-octylphthalate	50	5 U	5 U	5 U	5 U	5 U	0.9 JB 5 U

See appendix introduction for abbreviations and data qualifiers.
 Groundwater results are presented in ug/L (ppb).

TABLE C-28
TCL Semi-Volatile Organic Compounds - Groundwater
Magna Metals Site
Page 3 of 3

Sample ID	NYSDEC Water Quality Standards/ Guidance Values (Class GA)	GW-01 Background 981084A-01 05/11/98	GW-02 981084A-02 05/11/98	GW-03 981084A-03 05/12/98	GW-04 981084A-04 05/12/98	GW-05 Duplicate of GW-04 981084A-05 05/12/98
Benzo(b)fluoranthene	0.002	5 U	5 U	5 U	5 U	5 U
Benzo(k)fluoranthene	0.002	5 U	5 U	5 U	5 U	5 U
Benzo(a)pyrene	ND	5 U	5 U	5 U	5 U	5 U
Indeno(1,2,3-cd)pyrene	0.002	5 U	5 U	5 U	5 U	5 U
Dibenz(a,h)anthracene	NA	5 U	5 U	5 U	5 U	5 U
Benzog(h,i)perylene	NA	5 U	5 U	5 U	5 U	5 U
Semi-Volatile TICs	NA	--	13 J	--	7 J	7 J

See appendix introduction for abbreviations and data qualifiers.
Groundwater results are presented in ug/L (ppb).

TABLE C-29
TCL Pesticide/PCB Compounds - Groundwater
Magna Metals Site
Page 1 of 1

Sample ID	NYSDEC Water Quality Standards/ Guidance Values (Class GA)	GW-01 Background 981084A-01 05/11/98	GW-02 981084A-02 05/11/98	GW-03 981084A-03 05/12/98	GW-04 981084A-04 05/12/98	GW-05 Duplicate of GW-04 981084A-05 05/12/98
alpha-BHC	ND	0.01 U	0.01 U	0.01 U	0.02 U	0.01 U
beta-BHC	ND	0.00078 JP	0.00022 JP	0.01 P	0.021 P	0.11 P
delta-BHC	ND	0.00088 JP	0.0013 JPB	0.01 U	0.02 U	0.01 U
gamma-BHC (Lindane)	ND	0.01 U	0.01 U	0.009 J	0.02 U	0.01 U
Heptachlor	ND	0.01 U	0.0029 J	0.01 U	0.02 U	0.01 U
Aldrin	ND	0.01 U	0.01 U	0.01 U	0.02 U	0.01 U
Heptachlor epoxide	ND	0.001 JP	0.018	0.035 P	0.014 JP	0.01 U
Endosulfan I	NA	0.01 U	0.01 U	0.01 U	0.02 U	0.01 U
Dieldrin	ND	0.00072 JP	0.02 U	0.0038 JP	0.04 U	0.021 U
4,4'-DDE	ND	0.021 U	0.02 U	0.02 U	0.04 U	0.021 U
Endrin	ND	0.021 U	0.0033 JP	0.019 JP	0.0045 JP	0.003 JP
Endosulfan II	NA	0.021 U	0.02 U	0.02 U	0.0044 JP	0.0026 JP
4,4'-DDD	ND	0.021 U	0.02 U	0.02 U	0.04 U	0.021 U
Endosulfan sulfate	NA	0.021 U	0.002 U	0.02 U	0.04 U	0.021 U
4,4'-DDT	ND	0.021 U	0.008 JP	0.026 P	0.0048 JP	0.0046 JP
Methoxychlor	35	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U
Endrin ketone	5	0.021 U	0.02 U	0.02 U	0.04 U	0.021 U
Endrin aldehyde	5	0.021 U	0.02 U	0.02 U	0.04 U	0.021 U
alpha-Chlordane	0.1	0.01 U	0.01 U	0.004 JP	0.02 U	0.01 U
gamma-Chlordane	0.1	0.01 U	0.01 U	0.01 U	0.0063 JP	0.0028 JP
Toxaphene	ND	1 U	1 U	1 U	2 U	1 U
Aroclor-1016	0.1	0.21 U	0.2 U	0.2 U	0.4 U	0.21 U
Aroclor-1221	0.1	0.42 U	0.4 U	0.4 U	0.3 U	0.42 U
Aroclor-1232	0.1	0.21 U	0.2 U	0.2 U	0.4 U	0.21 U
Aroclor-1242	0.1	0.21 U	0.2 U	0.2 U	0.4 U	0.21 U
Aroclor-1248	0.1	0.21 U	0.2 U	0.2 U	0.4 U	0.21 U
Aroclor-1254	0.1	0.21 U	0.2 U	0.2 U	0.4 U	0.21 U
Aroclor-1260	0.1	0.21 U	0.2 U	0.2 U	0.4 U	0.21 U

See appendix introduction for abbreviations and data qualifiers.
 Groundwater results are presented in ug/L (ppb).

TABLE C-30
TAL Metals and Cyanide - Groundwater
Magna Metals Site
Page 1 of 1

Sample ID	NYSDDEC Water Quality Standards/ Guidance Values (Class GA)	GW-01 Background 981084A-01 05/11/98	GW-02 981084A-02 05/11/98	GW-02.2 981084A-06 05/12/98	GW-03 981084A-03 05/12/98	GW-04 981084A-04 05/12/98	GW-05 981084A-05 05/12/98	Duplicate of GW-04
Aluminum	NC	51.1 B 4 U	7400 4 U	965 4 U	1190 5.1 B	1910 4 U	1540 4 U	19.4
Antimony	3	2 U	64.3	54.5	15.7	20.4	56.5 B	
Arsenic	25	89.5 B 1 U	204 1 U	65.8 B 1 U	61.8 B 1 U	66.1 B 1 U	1 U	
Barium	1,000	1.4 B 10	1.4 B 10700	1.1 B 28100	1.5 B 21400	1.5 B 17100	1.5 B 19100	1.1 B
Beryllium	3	2.2 B	112	20	31.6	18.4	16500	14.5
Cadmium	NC	1 U	20.2 B 1.7 B	4.5 B 148	1.4 B 27.6	6.6 B 37.8	6.6 B 9.8 B	5.8 B 8.3 B
Calcium	50	1.7 B 200	148	27.6	37.8	9.8 B	8.3 B	
Chromium	NC	122	18900	2270	1420	2090	2090	1660
Cobalt	200	1.2 B	3.2	1.4 B	1.8 B	2.5 B	2.5 B	1.3 B
Copper	300	25	6980	18300	7780	2140 B	6390	5560
Iron	25	35,000	5.9 B 300	439	71.1	56.6	1600	1380
Lead	25	1.2 B	3.2	1.4 B	1.8 B	2.5 B	2.5 B	1.3 B
Magnesium	35,000	6980	18300	7780	2140 B	6390	5560	
Manganese	2	5.9 B NC	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
Mercury	2	6.1 B NC	169	113	262	10.4 B	10.4 B	
Nickel	2	1210 B	8250	6540	1640 B	3530 B	3530 B	
Potassium	10	2.5 B	93.1	91.6	60.1	96.8	96.8	88.4
Selenium	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Silver	50	20,000	27700	57600	54600	7950	39900	35400
Sodium	4	3 U NC	3 U 1 U	3 U 37.3 B	3 U 5.8 B	3 U 2.8 B	3 U 4.6 B	3 U 3.3 B
Thallium	4	300	7.8 B	113	39.6	516	7.4 B	4 B
Vanadium	NC	100	10 U	35	14	128	416	382
Zinc	300							
Cyanide	100							

See appendix introduction for abbreviations and data qualifiers.
 Groundwater results are presented in ug/L (ppb).

TABLE C-31
TCL Volatile Organic Compounds - Quality Assurance/Quality Control
Magna Metals Site
Page 1 of 4

Sample ID	TRIPBLANK	FB-01 Field Blank 65807001 12/10/96	FB-02 Field Blank 65807006 12/11/96	FB-04 Field Blank 71589007 04/11/97	FB-051297 Field Blank 72184002 05/12/97	MW-FB Field Blank 75528011 11/19/97
Laboratory ID	Trip Blank 72184001					
Date Sampled	--					
Chloromethane	1 U	10 UJ	10 UJ	10 U	1 U	1 U
Bromomethane	1 U	10 U	10 U	10 U	1 U	1 U
Vinyl Chloride	1 U	10 U	10 U	10 U	1 U	1 U
Chloroethane	1 U	10 U	10 U	10 U	1 U	1 U
Methylene Chloride	2 U	10 U	3 JB	10 U	2 U	2 U
Acetone	R	3 JB	6 JB	4 J	R	5 U
Carbon Disulfide	1 U	10 U	10 U	10 U	1 U	1 U
1,1-Dichloroethene	1 U	10 U	10 U	10 U	1 U	1 U
1,1-Dichloroethane	1 U	10 U	10 U	10 U	1 U	1 U
cis-1,2-Dichloroethene	1 U	NA	NA	NA	NA	NA
1,2-Dichloroethene (total)	NA	10 U	NA	10 U	NA	NA
trans-1,2-Dichloroethene	1 U	NA	NA	NA	1 U	1 U
Chloroform	1 U	10 U	10 U	10 U	1 U	1 U
1,2-Dichloroethane	1 U	10 U	10 U	10 U	1 U	1 U
2-Butanone	R	10 U	10 U	10 U	R	5 U
Bromoform	1 U	NA	NA	NA	1 U	1 U
1,1,1-Trichloroethane	1 U	10 U	10 U	10 U	1 U	1 U
Carbon Tetrachloride	1 U	10 U	10 U	10 U	1 U	1 U
Bromodichloromethane	1 U	10 U	10 U	10 U	1 U	1 U
1,2-Dichloropropane	1 U	10 U	10 U	10 U	1 U	1 U
cis-1,3-Dichloropropene	1 U	10 U	10 U	10 U	1 U	1 U
Trichloroethene	1 U	10 U	10 U	10 U	1 U	1 U
Dibromochloromethane	1 U	10 U	10 U	10 U	1 U	1 U
1,1,2-Trichloroethane	1 U	10 U	10 U	10 U	1 U	1 U
Benzene	1 U	10 U	10 U	10 U	1 U	1 U
trans-1,3-Dichloropropene	1 U	10 U	10 U	10 U	1 U	1 U
Bromoform	1 U	10 U	10 U	10 U	1 U	1 U

See appendix introduction for abbreviations and data qualifiers.
 QA/QC results are presented in ug/L (ppb).

TABLE C-31
TCL Volatile Organic Compounds - Quality Assurance/Quality Control
Magna Metals Site
Page 2 of 4

Sample ID	TRIPBLANK	FB-01 Field Blank 65807001 12/10/96	FB-02 Field Blank 65807006 12/11/96	FB-04 Field Blank 71589007 04/11/97	FB-051297 Field Blank 72184002 05/12/97	MW-FB Field Blank 75528011 11/19/97
Laboratory ID	Trip Blank 72184001					
Date Sampled	--					
4-Methyl-2-Pentanone	5 U	10 U	10 U	10 U	5 U	5 U
2-Hexanone	R	10 UJ	10 UJ	10 U	R	5 U
Tetrachloroethene	1 U	10 U	10 U	10 U	1 U	1 U
1,1,2,2-Tetrachloroethane	1 U	10 U	10 U	10 U	1 U	1 U
1,2-Dibromoethane	1 U	NA	NA	NA	1 U	1 U
Toluene	1 U	10 U	10 U	10 U	1 U	1 U
Chlorobenzene	1 U	10 U	10 U	10 U	1 U	1 U
Ethylbenzene	1 U	10 U	10 U	10 U	1 U	1 U
Styrene	1 U	10 U	10 U	10 U	1 U	1 U
Xylene (total)	1 U	10 U	10 U	10 U	1 U	1 U
1,3-Dichlorobenzene	1 U	NA	NA	NA	1 U	1 U
1,4-Dichlorobenzene	1 U	NA	NA	NA	1 U	1 U
1,2-Dichloro-3-chloropropane	1 U	NA	NA	NA	1 U	1 U
1,2-Dibromo-3-chloropropane	1 U	NA	NA	NA	1 U	1 U

See appendix introduction for abbreviations and data qualifiers.
 QA/QC results are presented in ug/L (ppb).

TABLE C-31
TCL Volatile Organic Compounds - Quality Assurance/Quality Control
Magna Metals Site
Page 3 of 4

	Sample ID	FB-051198 Field Blank 980518A2 05/11/98	TB-051198 Trip Blank 82228001 05/11/98	TB-051298 Trip Blank 82228007 05/12/98
Chloromethane		1 U	1 U	1 U
Bromomethane		1 U	1 U	1 U
Vinyl Chloride		1 U	1 U	1 U
Chloroethane		1 U	1 U	1 U
Methylene Chloride		2 U	2 U	2 U
Acetone		5 U	5 U	5 U
Carbon Disulfide		1 U	1 U	1 U
1,1-Dichloroethene		1 U	1 U	1 U
1,1-Dichloroethane		1 U	1 U	1 U
cis-1,2-Dichloroethene		NA	NA	NA
1,2-Dichloroethene (total)		1 U	1 U	1 U
trans-1,2-Dichloroethene		1 U	1 U	1 U
Chloroform		1 U	1 U	1 U
1,2-Dichloroethane		1 U	1 U	1 U
2-Butanone		5 U	5 U	5 U
Bromoform		1 U	1 U	1 U
1,1,1-Trichloroethane		1 U	1 U	1 U
Carbon Tetrachloride		1 U	1 U	1 U
Bromodichloromethane		1 U	1 U	1 U
1,2-Dichloropropane		1 U	1 U	1 U
cis-1,3-Dichloropropene		1 U	1 U	1 U
Trichloroethene		1 U	1 U	1 U
Dibromochloromethane		1 U	1 U	1 U
1,1,2-Trichloroethane		1 U	1 U	1 U
Benzene		1 U	1 U	1 U
trans-1,3-Dichloropropene		1 U	1 U	1 U
Bromoform		1 U	1 U	1 U

See appendix introduction for abbreviations and data qualifiers.
QA/QC results are presented in ug/L (ppb).

TABLE C-31
TCL Volatile Organic Compounds - Quality Assurance/Quality Control
Magna Metals Site
Page 4 of 4

Sample ID	FB-051198 Field Blank 980518A2 05/11/98	TB-051198 Trip Blank 82228001 05/11/98	TB-051298 Trip Blank 82228007 05/12/98
4-Methyl-2-Pentanone	5 U	5 U	5 U
2-Hexanone	5 U	5 U	5 U
Tetrachloroethene	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	1 U	1 U	1 U
1,2-Dibromoethane	1 U	1 U	1 U
Toluene	1 U	1 U	1 U
Chlorobenzene	1 U	1 U	1 U
Ethylbenzene	1 U	1 U	1 U
Styrene	1 U	1 U	1 U
Xylene (total)	1 U	1 U	1 U
1,3-Dichlorobenzene	1 U	1 U	1 U
1,4-Dichlorobenzene	1 U	1 U	1 U
1,2-Dichlorobenzene	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	1 U	1 U	1 U

See appendix introduction for abbreviations and data qualifiers.
 QA/QC results are presented in ug/L (ppb).

TABLE C-32
TCL Semi-Volatile Organic Compounds - Quality Assurance/Quality Control
Magna Metals Site
Page 1 of 3

Sample ID Laboratory ID Date Sampled	FB-04 Field Blank 970835A-05 04/11/97	FB-051297 Field Blank 971121A-11 05/12/97	FB-051198 Field Blank 981084A-07 05/11/98
Phenol bis(2-Chloroethyl) ether	10 U 10 U	10 U 10 U	5 U 5 U
2-Chlorophenol	10 U	10 U	5 U
1,3-Dichlorobenzene	10 U	NA	NA
1,4-Dichlorobenzene	10 U	NA	NA
1,2-Dichlorobenzene	10 U	10 U	NA
2-Methylphenol	10 U	10 U	5 U
2,2'-oxybis(1-Chloropropane)	10 U	10 U	5 U
4-Methylphenol	10 U	10 U	5 U
N-Nitroso-di-n-propylamine	10 U	10 U	5 U
Hexachloroethane	10 U	10 U	5 U
Nitrobenzene	10 U	10 U	5 U
Isophorone	10 U	10 U	5 U
2-Nitrophenol	10 U	10 U	5 U
2,4-Dimethylphenol bis(2-Chloroethoxy)methane	10 U 10 U	10 U 10 U	5 U 5 U
2,4-Dichlorophenol	10 U	10 U	5 U
1,2,4-Trichlorobenzene	10 U	10 U	5 U
Naphthalene	10 U	10 U	5 U
4-Chloraniline	10 U	10 U	5 U
Hexachlorobutadiene	10 U	10 U	5 U
4-Chloro-3-methylphenol	10 U	10 U	5 U
2-Methylnaphthalene	10 U	10 U	5 U
Hexachlorocyclopentadiene	10 U	10 U	5 U
2,4,6-Trichlorophenol	10 U	10 U	5 U
2,4,5-Trichlorophenol	26 U	25 U	20 U

See appendix introduction for abbreviations and data qualifiers.
 QA/QC results are presented in ug/L (ppb).

TABLE C-32
TCL Semi-Volatile Organic Compounds - Quality Assurance/Quality Control
Magna Metals Site
Page 2 of 3

Sample ID	FB-04 Field Blank	FB-051297 Field Blank	FB-051198 Field Blank
Laboratory ID	970835A-05	971121A-11	981084A-07
Date Sampled	04/11/97	05/12/97	05/11/98
2-Chloronaphthalene	10 U	10 U	5 U
2-Nitroaniline	26 U	25 U	20 U
Dimethylphthalate	10 U	10 U	5 U
Acenaphthylene	10 U	10 U	5 U
2,6-Dinitrotoluene	10 U	10 U	5 U
3-Nitroaniline	26 U	25 U	20 U
Acenaphthene	10 U	10 U	5 U
2,4-Dinitrophenol	26 U	25 U	20 U
4-Nitrophenol	26 U	25 UJ	20 U
Dibenzofuran	10 U	10 U	5 U
2,4-Dinitrotoluene	10 U	10 U	5 U
Diethylphthalate	0.4 JB	10 U	5 U
4-Chlorophenyl-phenylether	10 U	10 U	5 U
Fluorene	10 U	10 U	5 U
4-Nitroaniline	26 U	25 U	20 U
4,6-Dinitro-2-methylphenol	26 U	25 U	20 U
N-Nitrosodiphenylamine	10 U	10 U	5 U
4-Bromophenyl-phenylether	10 U	10 U	5 U
Hexachlorobenzene	10 U	10 U	5 U
Pentachlorophenol	26 U	25 U	20 U
Phenanthrene	10 U	10 U	5 U
Anthracene	10 U	10 U	5 U
Carbazole	10 U	10 U	NA
Di-n-butylphthalate	0.4 JB	10 U	5 U
Fluoranthene	10 U	10 U	5 U
Pyrene	10 U	10 U	5 U

See appendix introduction for abbreviations and data qualifiers.
 QA/QC results are presented in ug/L (ppb).

TABLE C-32
 TCL Semi-Volatile Organic Compounds - Quality Assurance/Quality Control
 Magna Metals Site
 Page 3 of 3

Sample ID	FB-04 Field Blank 970835A-05 04/11/97	FB-051297 Field Blank 971121A-11 05/12/97	FB-051198 Field Blank 981084A-07 05/11/98
Butylbenzylphthalate	10 U	10 U	5 U
3,3'-Dichlorobenzidine	10 U	10 U	5 U
Benzo(a)anthracene	10 U	10 U	5 U
Chrysene	10 U	10 U	5 U
bis(2-Ethylhexyl)phthalate	0.8 JB	10 U	0.8 JB
Di-n-octylphthalate	10 U	10 UJ	5 U
Benzo(b)fluoranthene	10 U	10 UJ	5 U
Benzo(k)fluoranthene	10 U	10 U	5 U
Benzo(a)pyrene	10 U	10 U	5 U
Indeno(1,2,3-cd)pyrene	10 U	10 U	5 U
Dibenza(h)anthracene	10 U	10 U	5 U
Benzo(g,h,i)perylene	10 U	10 U	5 U
Semi-Volatile TICs	--	--	5 JN

See appendix introduction for abbreviations and data qualifiers.
 QA/QC results are presented in ug/L (ppb).

TABLE C-33
TCL Pesticide/PCB Compounds - Quality Assurance/Quality Control
Magna Metals Site
Page 1 of 1

Sample ID	FB-04 Field Blank 71589007 04/10/97	FB-051297 Field Blank 72054016 05/12/97	FB-051198 Field Blank 981084A-07 05/11/98
alpha-BHC	0.05 U	0.05 U	0.01 U
beta-BHC	0.05 U	0.05 U	0.0016 JP
delta-BHC	0.05 U	0.05 U	0.00046 JP
gamma-BHC (Lindane)	0.05 U	0.05 U	0.01 U
Heptachlor	0.05 U	0.05 U	0.01 U
Aldrin	0.05 U	0.05 U	0.01 U
Heptachlor epoxide	0.05 U	0.05 U	0.01 U
Endosulfan I	0.05 U	0.05 U	0.01 U
Dieldrin	0.1 U	0.1 U	0.021 U
4,4'-DDE	0.1 U	0.1 U	0.021 U
Endrin	0.1 U	0.1 U	0.021 U
Endosulfan II	0.1 U	0.1 U	0.021 U
4,4'-DDD	0.1 U	0.1 U	0.021 U
Endosulfan sulfate	0.1 U	0.1 U	0.021 U
4,4'-DDT	0.1 U	0.1 U	0.000092 JP
Methoxychlor	0.5 U	0.5 U	0.1 U
Endrin ketone	0.1 U	0.1 U	0.021 U
Endrin aldehyde	0.1 U	0.1 U	0.021 U
alpha-Chlordane	0.05 U	0.05 U	0.01 U
gamma-Chlordane	0.05 U	0.05 U	0.01 U
Toxaphene	5 U	5 U	1 U
Aroclor-1016	1 U	1 U	0.21 U
Aroclor-1221	2 U	2 U	0.42 U
Aroclor-1232	1 U	1 U	0.21 U
Aroclor-1242	1 U	1 U	0.21 U
Aroclor-1248	1 U	1 U	0.21 U
Aroclor-1254	1 U	1 U	0.21 U
Aroclor-1260	1 U	1 U	0.021 U

See appendix introduction for abbreviations and data qualifiers.
 QA/QC results are presented in ug/L (ppb).

TABLE C-34
TAL Metals and Cyanide - Quality Assurance/Quality Control
Magna Metals Site
Page 1 of 1

Sample ID	FB-04 Field Blank 970835A-05 04/11/97	FB-051297 Field Blank 971121A-11 05/12/97	FB-051198 Field Blank 981084A-07 05/11/98
Aluminum	23.1 B	312 B	6.0 U
Antimony	3.7 B	3 U	4.0 U
Arsenic	3 U	3 U	2.0 U
Barium	4 U	4 U	1.0 U
Beryllium	1 U	1 U	1.0 U
Cadmium	1 U	1 U	1.0 B
Calcium	84.8 B	197 B	19.9 B
Chromium	1.8 B	1 U	1.3 B
Cobalt	1 U	1 U	1.0 U
Copper	1 U	1.3 B	1.0 U
Iron	48.2 B	56.4 B	18.3 B
Lead	2 U	2 U	1.2 B
Magnesium	5.9 B	43.9 B	12.0 U
Manganese	1 U	2.3 B	1.0 U
Mercury	0.2 U	0.2 U	0.2 U
Nickel	2.8 B	0.2 U	2.5 B
Potassium	27.7 B	29.4 B	15.4 B
Selenium	3 U	3 U	2.0 U
Silver	1 UJ	1 UJ	1.0 U
Sodium	405 B	95.1 B	79.2 B
Thallium	3 U	3 UJ	3.0 U
Vanadium	1 U	1 U	1.0 U
Zinc	3.6 JB	15.7 B	2.5 B
Cyanide	10 U	10 U	10.0 U

See appendix introduction for abbreviations and data qualifiers.
QA/QC results are presented in ug/L (ppb).

BCLP02753

APPENDIX D

**REMEDIAL MEASURE
COST ESTIMATING INFORMATION**

MAGNA METALS					
SOIL EXCAVATION AND DISPOSAL					
BUDGETARY COST ESTIMATE					
		QUANTITY	UNIT	UNIT COST	TOTAL
DIRECT COSTS					
Excavation		875	tons	\$ 14.00	\$ 12,250
Transportation & Disposal (w/ pretreatment)		1006	tons	\$ 75	\$ 75,450
Pretreatment			1 allowance	\$ 50,000	\$ 50,000
Clean Fill		240	tons	\$ 25	\$ 6,000
Sampling and Analysis (Disposal)		1		\$ 4,000	\$ 4,000
Site Work (Grading & Restoration)		1575	ft 2	\$ 10	\$ 15,750
Erosion and Sediment Control			1 allowance	\$ 3,000	\$ 3,000
Total Direct Costs					\$ 166,450
INDIRECT COSTS					
Engineering/Design			1 allowance	\$ 33,290	\$ 33,290
Construction Misc.			1	\$ 15,000	\$ 15,000
Total Indirect Costs					\$ 48,290
SUBTOTAL					
Contingency (25%)					\$ 53,685
TOTAL ESTIMATED COST					
					\$ 268,425

MAGNA METALS					
GROUNDWATER CONTAINMENT					
BUDGETARY COST ESTIMATE					
DESCRIPTION		QUANTITY	UNIT	UNIT COST	TOTAL
DIRECT COSTS					
Wells Installation (4" dia. PVC @ 15' deep))		4 each	\$ 2,500	\$ 10,000	
Groundwater Collection and Discharge		1 lot	\$ 8,000	\$ 8,000	
Packaged Groundwater Treatment System (1)		1 lot	\$ 115,000	\$ 115,000	
Field Installation		1 lot	\$ 40,000	\$ 40,000	
Site Preparation		1 lot	\$ 8,000	\$ 8,000	
Total Direct Costs					\$ 181,000
INDIRECT COSTS					
Engineering/Design		1 allowance	\$ 54,300	\$ 54,300	
Construction Misc.		1	\$ 9,500	\$ 9,500	
Total Indirect Costs					\$ 63,800
SUBTOTAL					\$ 244,800
Contingency (25%)					\$ 61,200
TOTAL ESTIMATED COST					\$ 306,000
NOTES:					
1. Alternative contingent upon feasibility of sustainable groundwater extraction as RI data indicated low permeability sands and recharge rates. A 72 hour aquifer pumping test program should be performed prior to implementation of IRM (Interim Remedial Measure) or RD/RA (Remedial Design/Remedial Action).					
2. Annual Operations and Maintenance costs (O+M) not shown. At this time, insufficient data exists for reasonable estimate. Data gaps include pumping rate and discharge method. O+M costs could be on the order of \$100,000 per year, however, significant increase/decrease could occur due to either of the following:					
a. Discharge to POTW would result in substantial decrease to O+M, total O+M cost range likely to be 50-100K per year with POTW discharge.					
b. Discharge to Surface Water would result in substantial increase to O+M due to higher treatment standards/requirements, total O+M cost range likely to be 100-150K per year with Surface Water Discharge.					
3. Packaged groundwater treatment system includes pH adjustment, chemical filtration, and carbon adsorption.					